RCMA
NEWSLETTER
DECEMBER 1987

In This Issue:
1987 Index
88 Winter Olympics
Radio Communications
(see page 69)

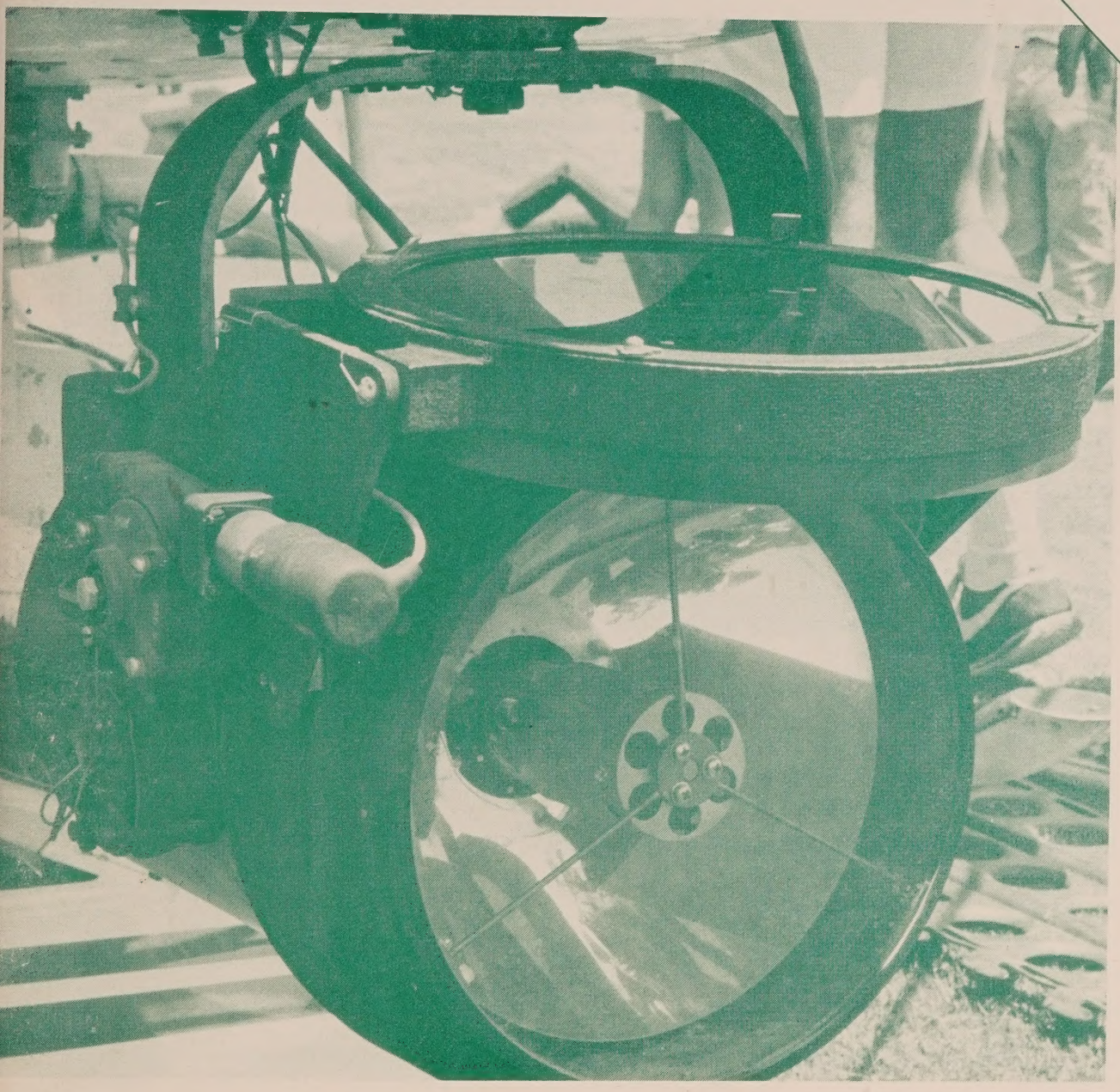

Photo by Hugh Stegman (CA-LA-472)

FIRST NATIONAL AND INTERNATIONAL ORGANIZATION OF MONITOR RADIO LISTENERS

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS
ARC

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RCMA NEWSLETTER

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Manhattan Beach, CA 90266-8198

FOR YOUR INFORMATION:

1. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropiate, send input to RCMA, P.O. Box 1198, Manhattan Beach, CA 90266-8198

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR RCMA MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

5. Please write on only one side of the paper.

6. Please don't combine in one letter several items that should go to different addresses.

7. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

8. Your RCMA membership number and expiration date appear on your newsletter mailing label.

9. You may join or renew your membership for ONLY one year at a time.

10. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA Newsletter

Issue 142 December 1987

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TABLE OF CONTENTS

AIRCRAFT....9
AMATEUR RADIO COMMUNICATIONS....11
ANARC NEWS....4
BEGINNER'S CORNER....5
BELOW 30 MHz....13
BUSINESS, ETC....16
CALENDAR....2
CANADA....18
CONTACT/INFO WANTED....22
DIGITAL COMMUNICATIONS & COMPUTER CORNER....23
FCC TOPICS....26
FEDERAL GOVERNMENT/MILITARY....24
FROM THE CAPTAIN'S DESK....5
INTERNATIONAL....28
LISTENER'S PROFILE....31
MARKETPLACE....35
MONITORING AND THE LAW....35
NEW MEMBERS LIST....76
NEW PRODUCT REVIEW....5
NEWS MEDIA COMMUNICATIONS....37
PUBLIC SAFETY:
- CALIFORNIA....61
- GREAT LAKES....46
- NORTH CENTRAL....43
- NORTH EAST....50
- SOUTH CENTRAL....40
- SOUTH EAST....5
- WEST....55

RAILROADS....65
RCMA BUSINESS REPORT....9
SPACE COMMUNICATIONS....0
SPECIAL EVENTS....0
SPECIAL FEATURE....69
TECHNICAL TOPICS....0
VHF MARINE....75
YOUR THOUGHTS....5

CONTACTING RCMA?

For membership applications or renewals, address changes, inquiries about delivery or renewal problems, write to:

RCMA General Manager
P.O. Box 542
Silverado, CA 92676

Have a comment about RCMA club policy or newsletter content? Write to:

William Mauldin, RCMA General Editor
961 Azalea Street
Boca Raton, FL 33486

Want a letter published in *Your Thoughts* column? Write to:

Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198
Manhattan Beach, CA 90266-8198

Correspondence sent to RCMA's Anaheim P.O. Box will still be answered, but there will be a 4-6 week delay.

Cover Photo: "Nightsun" million candle-power light on an LAPD helicopter. Motors focus and aim the lamp, and a filter drops down for IR surveillance,

Photo by Hugh Stegman (CA-LA-472)

The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20; South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. RCMA, Inc. does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

CALENDAR

Send notices of upcoming events for the Calendar section to:
John R. Clark, 2701 Fairview Road, Costa Mesa, CA 92626

Deadline: 1st of the month two months prior to cover date.

New Group, complete with newsletter, formed by Les Mattson, NJ-187

"The Northeast Scanning News" is being published by Les Mattson, 212 West Broad Street, Paulsboro, NJ 08066. The monthly publication covering the states of New Jersey, New York, Pennsylvania, Delware, Ohio, Maryland, Virginia, West Virginia, DC, Main, Connecticut, Massachusetts, New Hampshire, Rhode Island, and Vermont. Sample copies $2.00. $24.00 per year prorated from Jan 1. Make checks out to Les Mattson.

A second ANNUAL NESN PICNIC is planned for the last of June, 1988. Picnic is open to all scanner listeners.

***** ***** ***** ***** ***** ***** ***** *****

R.C.M.A. Greater Los Angeles Area Chapter

We are still in the process or a reorganization. Check this column next month. Late minute information may appear on 446.375 MHz. Remember the TRW Swap Meet "walk about" is the last Saturday of each month. Most of the old members are there.

R.C.M.A. West Los Angeles Area Chapter

Contact : Rick DiFiore (CA-LA-544) (213) 397-6581 or
Hugh Stegman (CA-LA-472) (213) 398-5353
Talk in: 146.925 MHz {-600 PL-2A} Tues 1930 hrs net.

Meetings on the second Wednesday of each month at 7:30 PM. The location is Shakey's Pizza Parlor, 12924 Washington Blvd, Culver City. Take the 405 Freeway to Washington, and go west to the Shakey's at the corner of Beethoven St. Use frequency 146.925 for talkin.

Austin Area Radio Listeners Meeting

Contact David Litsinger TX -032 441-0650
P.O. Box 17142, Austin, TX 78760

3rd Thursday of the month 7:00 PM
South Austin Multi-Purpose Center
2508 Durwood (off 500, Blk W. Olterf)
Lots of easy parking here

All Ohio Scanner Club

Contact David B. Marshall OH-146, Managing Editor
50 Villa Road, Springfield, OH 45503-1036

The All Ohio Scanner Club covers all of Ohio, plus Inidana, Kentucky, Michican, Pennsylvania, West Virginia, and Ontario, Canada, plus other areas as well. Members from these and other areas are welcome. The AOSC newsletter also features execellent fedteral goverment and below 30 MHz utilities columns.

Sample Newsletter $2.00. Membership information for a SASE

R.C.M.A. Wisconsin Chapter

Contact Scott W. Miller WI-039
122 Greenbriar Drive, Sun Prairie, WI 53590

R.C.M.A. Chicago Chapter

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Saturday	January	9 1988	1:00 PM
Saturday	March	5 1988	1:00 PM
Saturday	April	16 1988	1:00 PM
Saturday	June	11 1988	1:00 PM
Saturday	July	30 1988	1:00 PM
Sunday*	August	28 1988	all day
Saturday	September	17 1988	1:00 PM
Saturday	November	12 1988	1:00 PM

* annual Picnic - Field Day

Visitors are welcome but please confirm the date in advance.

The Chicago Chapter requests members send a years supply of 9 SASE's plus $2.00 to the "contact person" listed above. The funds will cover the printing of a newsletter that will be sent of all chapter members just before each meeting.

R.C.M.A. for D.C., MD, VA & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

Local chapter newsletter is supplementary to the RCMA newsletter. Because members are so far apart, no meetings are presently scheduled. However, anyone interested in corresponding or meeting local area members may send their name, address, phone (optional) & monitoring interests to above address. A list of these names and interests will be compiled and sent to individuals on the list. Visitor, traveler, frequency & newsletter requests are also welcome.

R.C.M.A. Minneapolis - St. Paul Area Chapter

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

NEED RCMA BACK ISSUES?

1985, 1986 and 1987 issues to date are available until Dec. 31 of this year, at which time 1985 issues will no longer be stored. The following postage rates apply to <u>all</u> orders, and are in addition to the cost of the newsletters.

THE COST OF EACH ISSUE IS $1.00
When ordering, calculate $1 per issue. Then refer to the chart below to the correct amount of postage. (Rates based on lst class USPS)

# OF ISSUES	AMOUNT OF POSTAGE
1	$ .73
2	$ 1.41
3	$ 2.09
4 thru 8	$ 2.40
9 thru 12*	add $ .48 for each issue

*Orders shipped at maximum of one year (12 issues) per package.

RCMA has a Telephone Number

The new RCMA telephone number is (714)545-9551. It's 'manned' by an answering machine, and while it's been established for RCMA members, its use is limited. You may leave a message concerning delivery or renewal problems; you cannot use it to request club information or order back issues. Appropriate response will be made by letter or postcard, not by telephone. Any call regarding a membership problem MUST be accompanied by your membership number.

Please remember that it is a toll call, so be sure before you dial that a written communication won't do just as well.

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well-established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

Write to: ANARC Newsletter, P.O. Box 462, Northfield, MN 55057 for the following:

- **Copy of ANARC Club listing—send 25 cents and a business size SASE**
- **Sample copy of ANARC Newsletter—send 60 cents and a business size SASE**
- **Annual subscription to ANARC Newsletter—$7.50 for residents of the U.S., Canada, and Mexico; $10 Overseas (Airmail)**

NOVEMBER 7 - AMERICAN SHORTWAVE LISTENERS CLUE (ASWLC) Saturday 10 AM to 3 PM Meeting at Club HQ, 16182 Ballard Lane, Huntington Beach, CA 92649-2204. All DXers are invited. Whenever you are in the Los Angeles Orange County area visit your club. For details send a SASE to the above address.

NOVEMBER 13 - MINNESOTA DX CLUB. Friday. 7PM Hennepin County Government Center, 300 South 6th St. in downdown Minneapolis, MN. Special Guest Speaker will be Ed Ripley, "The Golden Days of Music Radio." For details send a SASE to MDXC, 5212 Drew Ave South, Minneapolis, MN 55410.

NOVEMBER 15 - MICHIGAN ARES RADIO ENTHUSIASTS (MARE) Lansing area meeting at Ken Zichi's home, 3018 Moyer St, Williamston, MI 48895-9566 Meeting time is 2 to 5 PM. For details send a SASE to Ken.

DECEMBER 5 - AMERICAN SHORTWAVE LISTENERS CLUB (ASWLC) Saturday 10 AM to 3 PM. Meeting at Club HQ, 16182 Ballard Lane, Huntington Beach CA 92649-2204. For details call (714) 846-1685. No collect calls please.

DECEMBER 11 - MINNESOTA DX CLUB (MDXC) Friday 7PM Home of Martin Croze, 6017 Drew Ave South, Edina, MN for details phone Tom Gavras, (612) 544-2433. No collect calls please.

WASHINGTON AREA DX ASSOCIATION (WADXA) welcomes visitors to the Greater Washington, DC area to their meetings. For data on the next meeting send a SASE to WADXA 606 Forest Glen Road, Silver Spings, MD 20901.

MAY 21 to 25 EUROPEAN DX COUNCIL Antwerp Belgium

JULY 14 to 17 ASSOCIATION OF NORTH AMERICAN RADIO CLUBS, Huntington Beach CA.

ASSOCIATION OF DX REPORTERS, 7008 Plymouth Road, Baltimore, MD 21208 covers many subjects in their monthly magazine "DX Reporter". Colums on Shortwave, Utilities, QSL cards, LF Beacons, FM, AM broadcast, etc. Sample copies are $1.00 or 5 I.R.C.'s.

SOUTH PACIFIC ASSOCIATION OF RADIO CLUBS (SPARC) is a confederation of DX Clubs in New Zealand and Australia. They publish a newsletter. Their address is: SPARC P.O. Box 1313, Invercargill, New Zealand

NATIONAL RADIO CLUB'S AM RADIO LOG, 8th edition, is available. $12.95 for US orders or $13.95 for Canadian orders. Order from NRC Publication Center, P.O. Box 164, Mannsville, NY 13661.

ANTIQUE RADIO CLASSIFIED, P. O. Box 2, Carlisle, MA 01741, is antique radio's largest circulation monthly magazine. Their circulation is about 2350. For a complementary copy send a SASE to above address.

COMMUNICATIONS POST, Box 1771, Grand Forks, ND 58206-1771, a bimonthly publication where you can buy, sell, or trade shortwave, amateur and computer equipment. They feature technical articles, electronics projects to build, and equipment review. Sample copy for a SASE, Subscriptions is $9.95 per year.

INTERNATIONAL RADIO AND COMPUTERS, Inc. 747 South Macedo Blvd, Port St. Lucie, FL 34983, has their latest radio price catalog. Write them for their latest price list.

ALL EXECTRONICS Corp P.O. Box 567, Van Nuys, CA 91408, specilizes in electronics parts and surplus equipment., by mail order.

your thoughts

Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198, Manhattan Beach, CA 90266-8198

Your Thoughts is the RCMA members' forum on current topics of interest to the scanner hobbyist. If you have an opinion you would like to express, RCMA encourages you to send it in.

Your letter must include your name, address, and RCMA membership number. Due to space limitations, RCMA reserves the right to condense submitted material.

The mailbag this month was somewhere in the mail at press time.

NO COLUMN THIS MONTH. . .

Beginner's Corner
Editor: John Leth-Nissen, Rt. 1, Box 101, Benton, KS 67017

New Product Review
Editor: James Abdu, 340 McGill Pl, Atlanta, GA 30312

Public Safety—South East
Editor: Jorge Rodriguez, 1129 Castile, Coral Gables, FL 33134

Your Thoughts
Editor: Kurt Swaney, P. O. Box 1198, Manhattan Beach, CA 92066-8198

From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
961 Azalea Street, Boca Raton, FL 33486

ASSOCIATE EDITOR IN EACH STATE?

My primary objective as your General Editor is to get each issue of the NEWSLETTER to contain more and more current, useful, worthwhile information. With an all volunteer staff, this is not always that easy to do. Staff members have needs and our roles are continuously changing. Membership input is not always constant or reliable. And, there are areas in the USA that have vast differences in membership population. There are always problems of one sort or another.

If you have been following the past few editions of the DESK, you are aware that we are in the early stages of testing an Associate Editor program in Public Safety Southeast. This program would allow us to have one Associate Editor in each state. This Associate Editor would in theory be the RCMA Reporter for his state. His job would be to collect and verify information and forward this material along to the Staff Column Editor. The Column Editor would then edit and write the column for you to read. Initially, our objective was to have the Associate Editor report only to the Staff Public Safety Editor for his area. However, after thinking about the program, why not have this State Associate Editor collect information on all subjects?

All subjects would have an in state reporting representative.

At present there is no provision for free membership for Associate Editors. What then could be offered as a "reward" for the work done? So far we have thought about listing all Associate Editors in a Directory. Members could send questions directly to their "state associate editor", who would, in turn be quite knowledgeable about monitoring in his state. Of course, there is always the reward of getting really involved in the club and the hobby.

As this article is being written, appointments have been made in the Public Safety Southeast states of South Carolina and Virginia. More appointments will be made to see how this program will benefit YOU, the membership.

Although the program is still in the test stages, if YOU would like to be the Associate Editor for your state, I would like to hear from you. Send me a stamped, self-addressed envelope so I can send you a formal application form. Once you complete the form, you will be on file as an "associate editor applicant" and we will consider your qualifications. Appointments will be made from this file later.

Remember, as an associate editor you are not required to write a column - just collect, verify and forward information to the Staff Editors. No typewriter is required. You MUST be willing to stay in touch with your Public Safety Editor at least ONCE a month to verify that you are alive, well and active - even if you don't have anything to send him! More details on the program will be published once we see how much interest there is among the membership.

NO COURT BATTLES OVER E.P.A.

An Article in the August edition of MONITORING TIMES by Larry Wiland mentioned that there have been some "court battles" regarding the enforcement of the Electronics Communications Privacy Act. Robert Horvitz of ANARC advises that no such court cases have taken place. The article indicated there were several cases pending over production of electronic devices covered by the ECPA, regarding manufacturing and warning labels. To date, such labels have been voluntary when used.

NEW PRODUCT ALLOWS DIGITAL MONITORING

A recent advertisement in several communications magazines tells about the new Kantronics RF Packet Modem unit. This is a small modem which is designed to be used by commercial users and public safety departments for digital packet communications. The RFPM operates in an X.25-like protocol, allowing the operator to monitor and print commercial packet communications. When hooked to the audio output of your scanner, if one of your favorite monitoring stations transmits "packet bursts" of data, you can print the information on your home computer terminal. In the ad illustration, the RFPM is used with a Radio Shack model 100 portable computer and a portable scanner. The packet communicating offers error free printing and copying of the station being monitored.

Kantronics has been a long time supplier of the amateur market. The RFPM retails for $439, however, discounts are available from the nationwide amateur dealers who offer the Kantronics line to hams. A special note... this RFPM model is not able to copy packet communications of amateur communications.

Many public safety departments are now dispatching most routine calls on digital channels. Wouldn't it be interesting to come home after a night on the town and look over what has been going on while you were away! Packet type communications in the commercial field is just starting to open up. You need a modem, such as the RFPM, and a computer along with your scanner to keep up with what is going on out there!

Comments on this product should be addressed to the New Products Review Editor.

STAFF EDITORS NEEDED, APPLY WITHIN

David Wilcox, Editor of Public Safety Great Lakes has notified us that he must leave the staff. As this article is being written, there are no applications on file for this staff position. If you would like to be considered for **Editor, Public Safety Great Lakes**, send a stamped, self-addressed envelope for a formal application.

We have an opening for **Editor, Space Communications**. As this article is being written, there are no formal applications on file for this position. If you would

like to be considered for this staff position, send a stamped, self-addressed envelope for a formal application form.

We also have an opening for **Editor, Tech Topics.** As this article is written, there are no formal applications on file for this position. If you feel you are qualified to hold this staff position, send a stamped, self-addressed envelope for a formal application.

As of January 1988, all applications for staff positions must be filed with the General Editor on the RCMA Editor Application form. We are presently updating our files for all position openings, present and future. If you would like to be "wait listed" for **ANY** RCMA staff position, send a stamped, self-addressed business size envelope for an official application form. We MUST have you on file for consideration!

Remember, all RCMA Staff Column Editors get free RCMA membership and other benefits during their tour of service. If you are interested in ANY staff position, write for a formal application form and get your name and desires on file!

1987 CAPTAIN'S DESK INDEX

January 1987
- Preliminary Analysis of Electronics Communications Privacy Act

February 1987
- 1986 General Reader Survey Update
- Electronics Privacy Act update
- FCC License Application Crackdown Announced
- News on Cellular Video Telephone
- Northeast Scanning News update
- FAX Directory Offered for sale

March 1987
- Suggestions on Writing An Editor
- American Radio Relay League
- New Publications
  - Police Call, 1986 Edition

April 1987
- 1986 Survey Response, Round ONE
- New Publications
  - Government Radio Systems
  - Compendium of American Railroad Frequencies

May 1987
- RCMA Expands - Special Events, Computer Corner
- 1986 Survey Response, Round TWO
- Space Calls on Your Scanner
- New Publications
  - Police Call, New Edition
  - West Coast Amateur Radio School
  - Scanning the Entertainment Industry
  - Quebec Frequency Directory
- Trunking Communications
- Communications Profile changed to Listener's Profile

June 1987
- Gordon West Joins RCMA Staff
- 1986 Survey Update, Round THREE
- FCC Novice Enhancement for Hams
- New Publications
  - Northeast Scanning News
  - All Ohio Scanner Club
  - Chicago Chapter of RCMA
  - Utility QSL Address Guide

July 1987
- 1986 Survey Report, Detailed Totals
- Threat to 220 MHz Ham Band by Land Mobile Services
- Article, "Will There Be Another Law?"
- News Briefs: ARRL, Florida Highway Patrol belt buckles
  California monitoring legislation
- RCMA Photo Cover, details

August 1987
- Monitoring and the Law resumes publication in RCMA
- VHF Ship Season
- U.S. Marshals Destroy CB Amplifiers
- Address Changes for Kenwood
- Regency Asks for Scanner Labels
- FBI Jamming Case in San Diego
- Florida Announces 800 MHz Mutual Aid Channel
- Florida Troopers Get Cellular Phone Permission
- West Coast Radio School Announces New Course
- New Publications
  - CTM Digital Communications
  - Fox Marketing and Ohio

September 1987
- Associate Editor Program
- Listener's Profile Update
- Police Trunking and the Miami News Media
- Amateur Radio Ranks Swell & Training Materials
- Regency Returns to CB Marketing
- Icom R7000 Receiver Modification
- Cellular Phones Set New Record

October 1987
- Contacting Other Members
- OPTO Frequency Counter
- National Paging Service
- 800 MHz Disguise Antennas
- FCC Proposes Rulemaking for Trunking
- New Publications
  - Scanner Master Guide for NH and VT
  - Eleven Meter Times & Journal
  - Schrein Directories on Ohio
  - Maine Scanner Guide
- Fox Marketing Out of Scanner Book Business

November 1987
- Revised RCMA Editor Guidelines, Updated Edition
- Philadelphia Notification Radio Network
- Address Change for Uniden / Bearcat
- FCC Shuts Down Illegal Broadcast Station
- Editor Wait List Program Update
- New Publications
  - Scanner Frequency Directory on Michigan

CLOSING COMMENTS

As we come to the close of another year, many changes come to mind as I review the index for the DESK. Most of these changes were the direct result of input from you, the RCMA membership. Our 1988 Survey will be published in the January 1988 Centerfold. I encourage you to complete the form when it is published. There are many things we need to know about you, your desires, your feelings and especially your suggestions for RCMA for 1988. The 1988 Survey is YOUR VOTE on how we should run your club. Please take the time to complete the form and let us hear from you.

With the new Associate Editor program undergoing the final tests, if you are interested in the position for your state, write for a formal application form. You must send a stamped, self-addressed envelope with your request.

There are several RCMA Staff Column Editor positions open and there are no applications on file for consideration. If you are interested in ANY STAFF POSITION, write today and ask for a formal application form. You **must** update your file to be considered in 1988 for ANY staff position. Remember, staff column editors receive FREE RCMA membership for the duration of their service!

My thanks to all who have assisted me during this past year! Without your input and support this job would be impossible. Merry Christmas and a Happy New Year to each of you! I look forward to RCMA in 1988 with great pleasure and anticipation!

RCMA BUSINESS REPORT

RCMA Financial Report
3rd Quarter, 1987

	July	August	September	3rd Quarter
Mail Preparation & Computer Updating	323.73	355.15	361.61	1,040.49
Newsletter Production & Printing	1,498.74	1,689.46	1,798.21	4,986.41
Postage:				
Bulk	235.00	230.00	245.00	710.00
1st Class	206.50	187.14	233.05	626.69
Back Issue Storage	46.00	46.00	46.00	138.00
Office Supplies	0	14.95	8.00	22.95
California Tax Franchise Board	274.68	25.00	0	299.68
Returned Item/ Bank Entry	19.50	24.23	4.73	48.46
Total Expenses	$2,604.15	$2,571.93	$2,696.60	$7,872.68
Carried forward from previous quarter	86.00			86.00
	$2,690.15			$7,958.68
Balance on Hand 6/30/87: $9,743.69				
Deposit	3,151.97	2,413.09	1,661.36	$7,226.42
Balance	$10,205.51	$10,046.67	$9,011.43	$9,011.43

AIRCRAFT

Send private, commercial, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

Darrel Charest, 7887 Brandy Circle, Colorado Springs, CO 80920

Santa Claus came a little early this year as you may have noticed if you took a carefull look at the column. Yours truly is the proud owner of a new computer system. And now that its working as designed, it is becoming a pleasant experience. But that hasn't been entirely true during the past several weeks. The first problem was trying to decide what was needed, second how much we could afford to spend, and finally getting the system to work!!! So far I've been into several programs - one for data and two others for word processing. Its almost like learning a new language. Complicated? YOU KNOW IT. When you are buying a book that's titled "Word processing made easy" or something similar, it was probably written by a youngster with an IQ of 160 who graduated from college at age 14.

One thing for certain, however, using a word processing system on a computer is far easier than doing the job on an electric typewritter. But I gues there are new systems on the market, typewritters that is, that will do much the same job as the computer in allowing you to correct, change and edit what you have written. Well so much for the

computer, I hope our readers find this print easier to read. In the past everytime I read reader survey results complaining of the small print, I knew immediately the editor/column they had in mind.

We are limited this month in our space as a result of the December column index, so we'll move on to the mail.

During the move to Colorado I thought I had taken care to avoid loosing reader mail, yet just a few days ago I came across two letters that had been mislaid then as I was writing this column I found a third. So lets begin with these.

Bill Staubs, MD-005, wrote a nice letter in response to an earlier question in our column concerning scanner reception during air travel. He reported that he made made several trips between Baltimore and St Louis with his Regency HX-1200. On each trip as he boarded the aircraft he made a stop by the cockpit to ask the crew for permission to use his radio to monitor Fire and Aircraft channels. Conditional approval was given with the stipulation that he would be notified if it caused interference. Bill reported good reception on "Fire frequencies" in the 33, 46, 154, 460 and 494Mhz bands. In the future he hopes to spend some time reviewing the aircraft channels. Bill mentioned that he used an earpiece for his monitoring and has never had problems while listening.

Laura Quarantiello, CASD-078, sent Low and High Altitude Sector charts for the Los Angeles Center. These charts display each controllers area of responsibility and both VHF and UHF frequencies for the Center. Laura is a pilot and has previously made contributions to our column as well as others in the RCMA Newsletter. Space permitting the Sector charts will be printed in this issue, if not they should appear in January 1988.

Several months ago Howard Richman, NY-163, wrote for ARINC channels in the New York area, promising that he would be in touch with us later to confirm those he found active. Not only did Howard follow up on his promise, he sent several pages of material he received from the NY office of ARINC. These show routes and frequencies used by ARINC in the continental us, and maps including HF channels used by ARINC in Overseas communications. Now its my turn to try to see how active the HF frequencies are and how well I can receive them. The active New York frequencies reported by Howard appear at the end of the column.

AIRCRAFT INDEX

January 86s	Oakland Center, Cincinnatti, Albuquerque, Rock Island, Davenport, Connecticut, Massachusettes, New Hampshire
February 86	New York, New Jersey, landing charts for Heathrow, Gatwick, and Manchester (UK)
March 86s	Maine, Wisconsin
April 86	Oakland Center, California, Wisconsin, Baltimore/Washington airports
May 86	Sacramento, San Francisco, Milwaukee, New York City, and Albuquerque Center
June 86	Hawaii, Florida
July 86	Buffalo, Boston, Cleveland, Bangor, Minneapolis, O'Hare airport diagram
August 86	New York, Florida, Chicagos and Minneapolis Centers
September 86	ACARS
October 86	Washington DC and Company Frequencies for the area
November 86	Minneapolis/St Paul
December 86	St Louis, Denver, Minneapolis

January 87	New Orleans, California
February 87	ATC Examination, Pennsylvania and Southern California
March 87	Chicago, Atlanta, and Washington DC
April 87	Tri-Cities, Tn., Washington DC, Baltimore, Atlanta New York
May 87	Illinois, Airport diagrams for La Guardia
June 87	Oshkosh, Aspen, Airline Company channels for Washington and Baltimore
July 87	Kansas City Center, continuation of company frequencies for Baltimore/Washington
August 87	Hawaii, Newark, Minneapolis, Boston Center
September 87	Center frequencies for Atlanta, Albuquerque and Chicago
October 87	Boston, El Toro MCAS (Cal), Center frequencies for Salt Lake City, Seattle and Oakland
November 87	Flagstaff, New York, Seattle, Vancouver and Victoria
December 87	ARINC New York area

Listed below are the channels Howard Richman was able to confirm after many hours of monitoring - these are ARINC of aircarrier company channels.

128.9 JFK	129.35 LGA	129.9	128.25
129.02	129.15	129.2	129.22
129.27	129.3	129.35	130.4
130.55	130.95	131.05	131.1
131.12	131.35	131.5	130.2 EWR

As I learn a little more about this beast (computer) I hope to add a touch of class to the column - justified right margins and all those good things, but for now I'm thankfull I can abandon the electric typewritter for a good word processing system. See you next year!

AMATEUR RADIO COMMUNICATIONS

This column is for reporting on amateur radio activities that may be of interest to scanner listeners. Send reports and questions concerning repeater nets, civil emergency systems, packet radio, amateur TV, etc., to:

Gordon West, 2414 College Drive, Costa Mesa, CA 92626

"LISTENING TO THE HAM 220 MHz BAND"

The amateur radio 220 MHz band, sometimes referred to as 1.25 meters, extends from 220 MHz through 225 MHz. The ham radio community is presently battling the land mobile radio industry to keep the bottom 2 MHz of this band (220 MHz through 222 MHz). The land mobile industry is always in need of more frequencies, and they are presently urging the FCC to grant them 218 MHz - 222 MHz for narrow band transmission techniques. Amplitude compandered sideband is what the land mobile industry is looking for. They say that the bottom 2 MHz of the ham radio 220 MHz band is not effectively utilized by the hams, and what's a couple of MHz anyway? The hams are protesting bitterly!

The 220 MHz band is divided up into segments for specific use. Here is the ARRL band plan:

220.00 - 220.05	CW moon bounce
220.05 - 220.06	Propagational beacons
220.06 - 220.10	Weak signal CW
220.10	Calling frequency
220.10 - 220.50	Weak signal SSB & CW
220.50 - 221.90	Repeater control links
221.90 - 222.00	Weak signal guard band--no transmit
220.00 - 222.05	Moon bounce using CW & SSB
222.05 - 222.06	Propagational beacons
222.06 - 222.10	Weak signal CW
222.10	Calling frequency
222.10 - 222.30	Novice and up CW & SSB
222.34 - 222.38	Novice and up repeater inputs
223.34 - 223.90	Simplex & repeater outputs
223.40	Novice and up popular packet frequency
223.94 - 224.98	Novice and up repeater outputs

There are 25 simplex frequencies spaced 20 kHz apart most commonly used by Novice ham operators. Scan 223.5 MHz for the majority of FM simplex communications. Scan the repeater output channels at the top of the band for maximum FM repeater activity. There are approximately 54 repeater output channels for plenty of activity for the Novice operator and above.

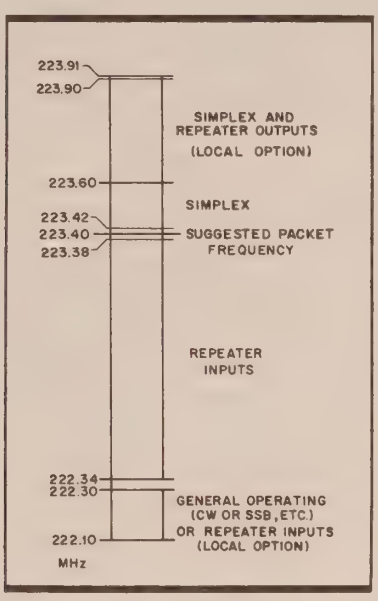
New Novice voice privileges from 222.1 to 223.91 have caused a significant amount of activity on the 220 MHz band. You will hear Novices retransmitted through repeater stations well beyond their normal 220 MHz band limits--and this is legal. The band limits only restrict where a Novice may transmit--their legal input signals are legally retransmitted by repeater stations with control operators of a higher class.

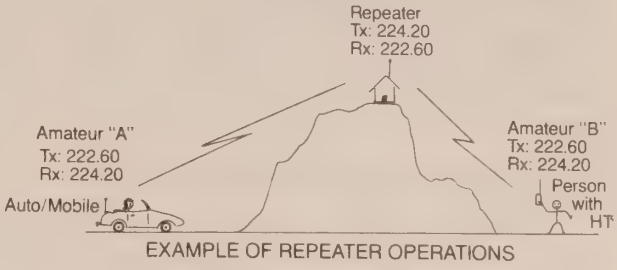
Your scanner will not be able to demodulate the CW and SSB signals also found on the 220 MHz band. This requires the use of a more sophisticated VHF/UHF receiver (ICOM and Yaesu) with all-mode receiving capabilities. You will also need a good antenna system to pick up those extremely weak CW and SSB signals.

Not all scanners are even capable to picking up the amateur radio 220 MHz band. If you don't see it on your scanner specifications, don't be surprised. This band is only a United States band, so not many scanner manufacturers felt it important enough to include as a basic frequency option. You could get a scanner converter to cover the 220 MHz band, but converters are bulky and usually plagued with birdies. It would probably be less expensive to simply buy a used, synthesized ham radio handheld for 220 MHz and use it as a scanner until you get your new Novice voice-class license. Then you can use it as a two-way transceiver!

PACKET transmissions abound on the 220 MHz band. To receive packet, all you need is your FM scanner or receiver, a home computer, and a new device called a terminal node controller (TNC). The TNC accepts information from your computer and assembles it into small bursts called packets. The TNC will also add important information about addressing, error checking, call signs of the sending and receiving stations, and addresses of those stations acting as packet digipeters. Most ham radio stores carry TNC controllers with a built-in modem that takes packet data audio signals and turns them into information to be understood by the TNC's packet assembly/disassembly computer. Ham radio operators swear by the AEA, Kantronics, and MFJ TNC units. Each TNC gives ample instructions on how to connect any audio output, through the TNC, into almost any home computer. You don't need a license to "monitor" or "read the mail" on packet radio. You will see all of the excitement appear on the screen at a whopping rate of 1,440 words per minute (1200 bauds)! Watch your entire monitor screen fill up with packet messages in less than 3 seconds! We'll talk more about ham radio packet in the future!

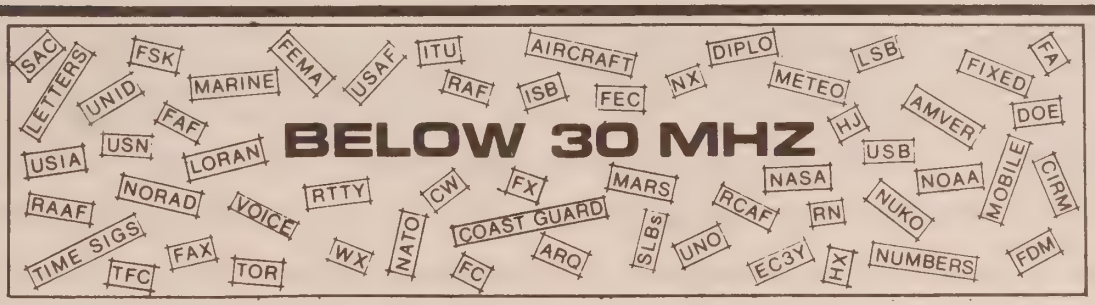
Whether hams lose or keep the bottom 2 MHz of the 220 MHz band won't dramatically effect where the present maximum amount of activity is--on the upper two-thirds of the band. Certainly the loss of the bottom 2 MHz will have a serious impact on thousands of hams throughout the country that control repeaters on the bottom portion of 220 MHz. However, whether the hams win or lose the battle for the bottom 2 MHz, you will always find plenty of activity on the top 3 MHz from 222.0 - 225.0 MHz. Listen in on how much fun the new Novice operators are having with their brand new voice privileges.





EXAMPLE OF REPEATER OPERATIONS

Courtesy of ICOM



This column is for HF AM, CW, SSB,RTTY and FAX reception reports, notes, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations—essentially everything except broadcasting, CB and amateur radio.

Hugh Stegman, 4354 Coolidge Ave, Los Angeles, CA 90066

Happy holidays from **Below 30 Mhz!**

My mail brings some interesting contributions from Geoff (ENG-005). First is a logging of the solo, transatlantic flight made by Richard Branson in a hot-air balloon. Geoff used the memory feature on his R-2000 to check all the frequencies used by Portishead Radio in aero mobile bands, and was rewarded with USB traffic on GKX 42, 8185 KHz. There were several interviews with "Good Morning America" and Capitol Radio in London, plus some personal phone patches.

Also, Geoff has monitored 2-tone warbles from the U.S. embassy stations such as KRH 50 and KWS 78. These are apparently messages that are repeated until a confirmation is received. This is new, and Geoff wonders about the availability of the codes. I would imagine that it's all classified. Anyone know for sure?

NAVTEX

NAVTEX, as mentioned before, is an automated system sending wx and

navigation warnings to ships on the high seas. The station in Boston now joins New Orleans on the air, on 518 KHz SITOR, FEC mode. Those without the special equipment may still be able to get good copy.

Last RNI update

Recently the U.S. government dropped all charges against Radio New York International DJ Ivan Rothstein and engineer Allan Weiner. This surprised me, as it appeared that international law justified the boarding of the vessel. The ship was returned to its owners, but not before equipment on board was rendered totally inoperative. I don't necessarily condone radio piracy, but I admit that I had a good laugh when I heard that the pair had become local celebrities, and were DJ'ing once a week on a "legal" station. Strange business...

Plan your listening (pt. 2)

What usually separates the DX ace from the beginner is a good feel for where the sun is at a particular time. The time of day and often the season differ at each point on the Earth, and so does the local propagation as a result of this. In the upper (F) layer, the maximum usable frequency is very high when both ends of a path have the sun near zenith. If both ends are in the dark, a lower frequency must be used. Every other possible path falls between these extremes.

Shorter, E layer skip fills in F2 skip zones during the day, and accounts for day skip on the lower bands. The D layer stops all day skip on the lowest HF bands, hence their general opening up at night. Local times get in here too. A hot path doesn't mean much if nobody is awake at one end.

Higher bands go through a compass-like cycle, often favoring the east in early morning, south at noontime, and west late at night. All bets are off if solar activity is very high, or disturbed.

Let's do a practical example. Shanghai Radio is on 17103.2 KHz. Checking the great circle map shows the radio path to be northwest from the U.S. (this alone surprises some). Thus we would plan to listen in the evening, after sunset closes out the E layer and the other F paths, but not so late that the band is totally dead.

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1986-87 BELOW 30 MHZ INDEX

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1/86 Shanwick (UK) air radio, ARINC (US) frequencies, 1985 index
2/86 Russian SWBC jammers, US military MUX, Ltrs/#'s loggings, Channel marker "beacons", Australian defense COMINT, log
3/86 INMARSAT, How to log RTTY fqs, Unidentified CW loggings, Channel markers, Marconi transatlantic anniversary, log
4/86 INMARSAT, The Spy, SECRET WAR reviewed, New channel markers, London Times OTH-B report, log
5/86 Portishead Radio freqs, The Spy, NAVTEX, Ltrs/#'s loggings, Channel markers, JASREP
6/86 Russian SWBC jammers, 2182 KHz wx list, Channel markers, Portishead radio, The Spy, USIA report
7/86 The Spy, USIA freqs, Morse code table, new 4302 MHz cluster
9/86 The Spy, RTTY Handbook review, Croughton (UK), Ltrs/#'s loggings, Channel markers
10/86 The Spy, Klingenfuss RTTY book review, log
11/86 The Spy, INMARSAT, log
12/86 The Spy, Russian CW aero net, 85/86 index
1/87 MSF closes, 5696 KHz USCG, The Spy, Alexanderson Alternator
2/87 New 3 MHz cluster "beacon", International Red Cross freqs, Unidentified 13288.2 KHz net, The Spy
3/87 Long, very complete time station list
4/87 Voyager I log, Miami & NY wx freqs, Marine coast stations, VNG to close, The Spy, log
5/87 NBS publication, Voyager I, KRH50, Channel markers, Woodpecker Project report, log

6/87 The Spy, Marine coast update, Paris FAX station closes, mystery RR/YL, #'s logging, log
7/87 Russian navy, RR/YL ID'd, #'s, Spanish wx BC, editor farewell
8/87 Hugh Stegman takes over, Propagation, Mexican outbanders
9/87 ENG-005 DIPLO loggings, more outband nets, Log conventions, New emission classification, Miniprop, Cover photo project
10/87 The Spook, RNI pirate shut down, Pirate radio places & fqs
11/87 SAC radio, Military MUX, The Spook, Plan your listening (1)
12/87 ENG-005 Branson log, new DIPLO mystery, NAVTEX, RNI, Plan your listening (2), 1985/86 index

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@topics@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

Alexanderson Alternator	1/87	Out-of-band stns	8 & 9/87
ARINC freqs	1/86	Paris FAX stn closes	6/87
Atlantic balloon flight	12/87	Pirate BC stns	10/87
Australia COMINT	2/86	Plan your listening	11 & 12/87
Cover photo project	9/87	Portishead Radio	5/86
Croughton comm ctr	9/86	Propagation	8/87
Channel marker beacons	2-6, 9/86	RNI	10 & 12/87
	5/87	RTTY Handbook review	9/86
Editor's farewell	8/87	RTTY logging	3/86
Emission types	9/87	Secret War reviewed	4/86
How to log	9/87	Shanwick (UK) radio	1/86
Hugh Stegman intro	8/87	Strategic Air Command	11/87
INMARSAT	3, 4, 11/86	Spanish wx BC	7/87
Intl. Red Cross fqs	2/87	The Spook	10-12/87
JASREP	5/86	The Spy	4/86 - 2/87
Klingenfuss RTTY book	10/86	Time stn list	3/87
KRH50	5/87	Unid. CW stns	3/86
Ltrs/#'s stations	2,5,9/86,7/87	USCG	1/87
Marconi anniversary	3/86	U.S. DIPLO stns	9 & 12/87
Marine coast stns	4 & 6/87	USIA	6 & 7/86
Miniprop	9/87	U.S. military	2 & 3/86, 11/87
Morse code table	7/86	USSR CW aero net	12/86
MSF closes	1/87	USSR navy	7/87
Mystery RR/YL	6 & 7/87	USSR SWBC jammers	2 & 6/86
NAVTEX	5/86, 12/87	VNG closes	4/87
NBS publication	5/87	Voyager I flight	4 & 5/87
OTH-B radar	4/86, 5/87	Wx fqs in NY, Miami	4/87
1985/86 index	12/86	Wx stns on 2182 KHz	6/86
1986/87 index	12/87	13288.2 KHz net	2/87

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1986-1987 COVER PHOTO INDEX

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01/86 LAPD "Felix" bomb disposal robot
02/86 Air controller at L.A. Airport
03/86 KNX radio traffic report studio
04/86 Radio groups testify on ECPA (Ham Radio Mag.)
05/86 Orange Co. FD dispatch position
06/86 LAPD/ LAFD Elysian Park tower
07/86 Audio Road/ Video Road corner on Mt. Wilson
08/86 LAPD ECCCS dispatch console
09/86 Chicago FD dispatch console (IL-044)
10/86 Stone Mtn. radio site, near Atlanta (GA-058)
11/86 CBS, Hollywood antenna farm
12/86 MGM Studios communication antenna
01/87 "Fletch" shooting at Santa Monica Beach
02/87 Lac-Megantic, Quebec FD (CAN-101)
03/87 CHP antenna on Strawberry Peak (CA-OR-204)
04/87 Mount Wilson (wide shot)
05/87 Mount Wilson (closer shot)
06/87 LAPD "battering ram" vehicle
07/87 Swedish INTERPOL HF antenna (SWED-003)
08/87 Life Flight air ambulance (CA-LA-544)
09/87 Lookout Mtn. antennas near Denver (CO-057)
10/87 Huey Cobra gunship (CA-LA-544)
11/87 LAPD MDT terminal
12/87 LAPD "Nightsun" helicopter light

**********end**********

BUSINESS, ETC.

This column is for reporting frequency and radio system information for the following services: business, forest products, petroleum industry, special industrial, manufacturers, motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.) and all school & college related frequencies.

Send business monitoring information <u>west of the Mississippi</u> to:
Cliff Polkinghorn, 2580 Parkside Drive, Union City, CA 94587

WELCOME TO DECEMBER "BUSINESS WEST" 1987.
MERRY CHRISTMAS, AND HAPPY NEW YEAR TO ALL OF OUR MEMBERS
AND THEIR FAMILIES.
THIS MONTH WE HAVE A BUSINESS LIST OF LAS VEGAS, FOR THOSE
OF YOU LUCKY ENOUGH TO BE ABLE TO GO TO THE "C.E.S." SHOW
IN VEGAS NEXT MONTH, THIS INFO MIGHT BE OF INTEREST.
THE CONTRIBUTOR IS "UNKNOWN" ..

31.04	CALIF. HOTELS & CASINOS
31.04	JOCKEY CLUB
31.24	MINT HOTEL
31.24	SAHARA NEVADA CORP.
35.08	HILTON HOTEL
35.50	VEGAS INSTANT PAGE
35.58	VEGAS INSTANT PAGE
43.16	BELL TELEPHONE
151.665	AIRPORT CASINO
151.685	SHOWBOAT INC.
151.685	PARADISE HOTEL
151.685	20TH CENTURY HOTEL/CASINO
151.715	HOILDAY CASINO
151.715	NOB HILL CASINO
151.745	HOTEL RIVIERA
151.745	NOB HILL CASINO
151.745	EL CORTEZ HOTEL
151.745	CIRCUS MANOR
151.775	FRONTIER HOTEL
151.775	HORSESHOE CLUB
151.775	PARADISE HOTEL
151.805	CASINO COIN MACHINE CO.
151.805	AID BAIL SERVICE
151.835	RENDEZVOUS HOTEL/CASINO
151.865	TREASURE HOTEL
151.865	PARADISE HOTEL
151.865	BULLOCKS
151.865	20TH CENTURY HOTEL
151.895	FIRST WESTERN SAVINGS
151.895	CIRCUS MANOR
151.925	CIRCUS CIRCUS
151.925	COMMUNICATIONS SPEC. INC.
151.955	BALI HAI HOTEL
152.240	VEGAS INSTANT PAGE
152.480	DUNES HOTEL
152.480	MARINA HOTEL
153.995	CIRCUS CIRCUS INC.
154.515	ALADIN HOTEL
154.540	HILTON HOTEL CORP.
154.540	INTERNATIONAL HOTEL
154.570	NORTH LAS VEGAS CASINO INC.
154.570	ALADIN HOTEL/CASINO
154.600	HACIENDA HOTEL INC.
155.160	INTERSTATE AIR AMBULANCE
155.205	MERCY AMBULANCE
155.400	SUNRISE HOSPITAL
157.560	SILVER NUGGETT
157.740	CONSOLIDATED CASINOS
157.740	LAS VEGAS CONVENTION CTR.
157.740	CONSOLIDATED CASINO
158.460	LUCERNE HOTEL
158.460	RIVERBOAT CASINO INC.
158.460	CAESARS WORLD
158.700	VEGAS INSTANT PAGE
161.730	KLUC BROADCASTING
161.760	SOUTHWESTERN BROADCASTING
163.250	DESERT SPRINGS HOSPITAL
166.250	KLUC BROADCASTING
173.225	CINEMA SERVICES
173.325	LAS VEGAS REVIEW JOURNAL
174.180	PHOENIX BROADCASTING
186.000	PHOENIX BROADCASTING
450.050	KLAS
450.225	KLAS
450.550	KLAS
450.850	KLAS
450.6125	ALFA BROADCASTING
454.125	VEGAS INSTANT PRESS
454.150	VEGAS INSTANT PRESS
454.225	VEGAS INSTANT PRESS
454.250	VEGAS INSTANT PRESS
454.275	VEGAS INSTANT PRESS
454.300	VEGAS INSTANT PRESS
454.325	VEGAS INSTANT PRESS
454.700	RAM BROADCASTING
455.020	SOUTHWESTERN BROADCASTING
455.250	KLAS
455.6125	ALFA BROADCASTING
452.800	PUROLATOR SECURITY
460.300	UNIV. OF NEV. POLICE
460.650	HUGHES CORP.
460.800	DUNES HOTEL & COUNTRY CLUB
460.800	TEXAS INTERNATIONAL
460.850	A.G.R. DETECTIVES
460.950	SHOWBOAT SECURITY
460.950	SILVER SLOTS INC.
461.000	ALARMCO INC.
461.050	HORSESHOE CLUB.
461.100	SILVER NUGGET CASINO
461.100	STATEWIDE INVESTIGATIONS
461.100	NORTH LAS VEGAS CASINOS
461.200	IMPERIAL PALACE HOTEL
461.200	CASINO EQUIPMENT INTERNATIONAL
461.225	AIRPORT INN
461.275	LA CONCHA MOTEL
461.325	INPERIAL PALACE HOTEL
461.325	SUNRISE HOSPITAL
461.325	FLAMINGO CAPRI HOTEL
461.375	EXECUTIVE SECURITY
461.400	KEYSTONE SECURITY

BUSINESS, ETC. continued

461.425	CALIF. HOTEL/CASINO
461.450	POKERMATIC CORP.
461.500	SPANISH OAKS SECURITY
461.550	LANDMARK HOTEL
461.600	SILVERBIRD HOTEL
461.675	TROPICANA CASINO
461.750	GOLDEN NUGGET HOTEL
461.775	CAESARS PALACE
461.800	GRIFFIN INVESTIGATIONS
461.925	HILTON HOTEL
461.925	DESERT SPRINGS HOSPITAL
461.950	CAESARS WORLD
461.975	AMERICAN SECURITY PATROL
461.975	GRAND FLAMINGO CLUB
462.000	GOLDEN NUGGET HOTEL
462.0125	HERTZ CORP.
462.075	VANS SECURITY
462.150	SUNRISE SECURITY
462.150	FOUR QUEENS HOTEL/CASINO
462.600	GRAYLINE TOURS
462.650	LAS VEGAS INTERNATIONAL
462.825	M.G.M. GRAND HOTEL
462.850	HILTON HOTEL
462.850	HOTEL SUNDANCE
462.875	RIVERA HOTEL
462.875	FREMONT HOTEL
462.875	GOLDEN GATE CASINO
462.900	SANDS HOTEL
462.925	ALADIN HOTEL/CASINO
463.175	"MED COMM" SUNRISE HOSPITAL
463.200	NIFTY NICKLE
463.275	POLICE AUXILIARY COM---
463.325	HILTON HOTEL
463.350	SPECIALIZED SECURITY
463.375	HILTON HOTEL
463.375	UNION PLAZA HOTEL
463.450	LAS VEGAS CONVENTION CTR.
463.475	CASINO OPERATIONS
463.475	HOLLIDAY INN INC.
463.475	WESTERN HOTEL & CASINO
463.500	ALL SECURITY & LOCK
463.525	STATEWIDE INVESTIGATIONS
463.575	DESERT INN & COUNTRY CLUB
463.575	DESERT INN/COUNTRY CLUB
463.600	GRAND RESORTS INC.
463.625	SUNDANCE HOTEL SECURITY
463.700	EXECUTIVE SECURITY SERVICE
463.725	REGENCY TOWERS INC.
463.750	AIRPORT INN
463.775	CASTAWAYS CASINO
463.775	SILVER SLIPPER
463.775	VEGAS TOWERS INC.
463.775	HOTEL CASTAWAYS
463.800	NEVADA SECURITY PATROL
463.825	M.G.M. GRAND HOTEL
463.900	SHOWBOAT INC.
464.000	HOLIDAY INN
464.025	THE INN AT LAS VEGAS
464.025	ROYAL INN OF LAS VEGAS
464.025	MINT HOTEL/CASINO (?)
464.050	MINT HOTEL/CASINO (?)
464.125	SAMS HOTEL/CASINO
464.150	BALLY DISTRIBUTING
464.225	HOLIDAY INN DOWNTOWN
464.325	MOTEL 6 INC.
464.325	MARIANNA INN INC.
464.375	CARAVAN TRAVEL
464.375	HOLIDAY INN
464.375	HOTEL NEVADA
464.375	HOTEL CONTINENTAL
464.375	MEADOWS MALL
464.425	DESERT INN
464.450	PAUL ANKA PRODUCTIONS
464.475	SAHARA NEVADA CORP.
464.525	FREMONT HOTEL
464.525	SAHARA NEVADA INC.
464.575	FREMONT HOTEL INC.
464.575	HILTON HOTELS CORP.
464.625	DUNES HOTEL/COUNTRY CLUB
464.675	DESERT PALACE INC.
464.725	STARDUST HOTEL
464.775	SAMS TOWN HOTEL & CASINO
464.800	SAMS TOWN HOTEL & CASINO
464.850	MAXIM HOTEL
464.850	FOUR QUEENS HOTEL
464.925	FOUR QUEENS ENGINEERING
464.925	HOLIDAY INTERNATIONAL
464.925	SHENANDOAH HOTEL
464.950	HOTEL RIVIERA
464.975	NORTH LAS VEGAS CASINO CORP.
465.000	LANDMARK HOTEL
466.900	SALVATION ARMY

Send business monitoring information east of the Mississippi to:
Brandt Niemuth, P.O. Box 541, Rosemont, IL 60016

Not much of a column this month. As with a computer; No Input, No Output. The following is just a few of my personal observations for the Chicago area;

Northwestern University - Evanston:
151.865 KES 741 Paging & some voice
463.475 KNFT675 Security
464.425 KNHA292 Maintenance

Chicago Messenger Service - Chicago
463.375 KFR 519 KRC 337
464.05
464.075
464.275 (ed note: Channel numbers are not known at this time)

Huntington Square Apartments - Mount Prospect:
154.57 Channel 'A' - primary

154.6 Channel 'B' - secondary
Arlington Park Race Track Update:
151.625 Andy Frain Ushers
464.975 Paging
464.425 Security
464.5 Barns - Handlers
(Ed note: No racing at Arlington Park in 1988 - Club house to be rebuilt at that time)
Misc:
461.775 KLL 777 Christ Hospital - Oak Lawn (Security)
461.775 KNAK429 Good Samaritan Hospital - Downers Grove (Security)
461.775 KNFS773 Good Shepherd Hospital - Barrington (Security)
(Ed note: These Hospitals have in-house systems with max output up to 40 watts)

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor listening and questions to:

Rob Berezowski, 310-4045 Rae St, Regina, Saskatchewan, Canada S4S 6Y8

RCMA CANADA COLUMN 1987 INDEX

FREQUENCIES, CODES & INFORMATION

ALBERTA	
Alta Fish & Wildlife	Feb Nov 87
Alta Govt Telephones (AGT)	Nov 87
Alta Highway Patrol	Feb Nov 87
Alta Power	Feb 87
Barrhead	Jan 87
Calgary	Jan 87
Edmonton	Jan Feb Aug Nov 87
Jasper	Aug 87
Lethbridge	Aug Nov 87
RCMP	Jan Jun 87
St Albert	Jan Feb 87
Sherwood Park	Feb 87
Stony Plain	Jan 87
Sylvan Lake	Aug 87
Trans Alta Utilities	Feb 87
BRITISH COLUMBIA	
Anmore	Sep 87
Belcarra	Sep 87
BC Emerg Health Services	Sep 87
BC Ferry Corp	Jul 87
BC Govt Air Service	Jul 87
BC Hydro	Jul Oct 87
BC Prov Emerg Program	Jul Nov 87
Canada Fisheries	Oct 87
Central Saanich	Jan 87
Cloverdale	Sep 87
Colwood	Jan 87
Communications Canada (DOC)	Oct 87
Cypress Provincial Park	Oct 87
Delta	Oct 87
Duncan	Jan 87
Expo 86	Jun Oct 87
Gabriola Island	Oct 87
Gibson	Sep 87
Ioco	Sep 87
Langford	Jan 87
Langley	Sep 87
Maple Ridge	May 87
Mill Bay	Jan 87
New Westminster	Sep 87

CANADA continued

North Vancouver	May Jun 87
Oak Bay	Jan 87
Port Moody	Sep 87
Prince George	Nov 87
RCMP	Jul Aug Sep Oct 87
Saanich	Jan 87
Sasamat	Sep 87
Sechelt	Sep 87
Shawnigan Lake	Jan 87
Squamish	Oct 87
Surrey	Sep Oct 87
Vancouver	May Jun Sep Oct 87
Vancouver Island	Jan Jul 87
Victoria	Jan Jul Oct 87
West Vancouver	Oct 87

NEW BRUNSWICK

Fredericton	Jun 87
NB Coronor	Jun 87
NB Forestry	Jun 87
NB Highway Patrol	Jun 87
NB Sheriff	Jun 87
Oromocto	Jun 87
RCMP	Jun 87

NOVA SCOTIA

CFB Shearwater	Apr 87
Dartmouth	Apr 87
Halifax	Apr 87
MT & T	Apr 87
Mobil Oil	Apr 87

ONTARIO

Ancaster	Jan 87
Barrie	Oct 87
Belleville	Jun 87
Binbrook	Jan 87
Brampton	Jan Apr Oct 87
Brockville	Jun 87
Carleton	Jun 87
Chatham	Sep 87
Chippawa-Muncey Reserve	Mar 87
Cornwall	Jun 87
Dundas	Jan 87
Fort Erie	Nov 87
Freelton	Jan 87
Gananoque	Jun 87
Glencoe	Mar Sep 87
Gloucester	Jun 87
Greensville	Jan 87
Grimsby	Nov 87
Hamilton	Jan 87
Hamilton/Wentworth Region	Jan 87
Hawksbury	Jun 87
Kanata	Jun 87
Kemptville	Jun 87
Kenilworth	Jan 87
Kingston	Jun 87
Kingston Township	Jun 87
Kitchener	Oct 87
Lanark County	Jun 87
Leeds County	Jun 87
Lincoln	Nov 87
London	Mar Apr Sep Oct 87
Long Sault	Jun 87
Lynden	Jan 87
Mississauga	Nov 87
Morrisburg	Jun 87
Mt Hope	Jan 87
Napanee	Jun 87
Nepean	Jun 87
Niagara Falls	Nov 87

Niagara-on-the-Lake	Nov 87
Niagara Region	Nov 87
Ont Min of Health	Jan Nov 87
Ont Min of Trans & Comm MTC	Sep 87
Ont Prov Police (OPP)	Mar Apr Jun Oct Nov 87
Oshawa	Jan 87
Ottawa	Jun Oct 87
Pelham	Nov 87
Pembroke	Jun 87
Perth	Jun 87
Peterborough	Jun 87
Port Colborne	Nov 87
Prescott	Jun 87
Rockton	Jan 87
St Catharines	Nov 87
Satellite City	Jan 87
Shabot Lake	Jun 87
Smith Falls	Jun 87
Stoney Creek	Jan 87
Stormont,Dundas & Glengarry	Jun 87
Stouffville	Jan 87
Strathburn	Sep 87
Thorold	Nov 87
Toronto	Jan Apr May Sep Oct Nov 87
Waterdown	Jan 87
Waterloo	Apr 87
Weatheradio Canada	Sep 87
Welland	Nov 87
West Carleton Township	Jun 87
Windsor	May Sep Oct 87
Winona	Jan 87

QUEBEC

Bromont	Jul 87
Coleraine	Jul 87
Disraeli	Jul 87
Drummondville	Jul 87
Lac Drolet	Jul 87
Lac Megantic	Jul 87
Montreal	Jul 87
Mt Belair	Jul 87
Quebec City	Jul 87
Roxton Falls	Jul 87
St-Georges-de-Beauce	Jul 87
Sherbrooke	Jul 87
Thetford Mines	Jul 87
Trois-Rivieres	Jul 87
Victoriaville	Jul 87

SASKATCHEWAN

RCMP	Mar Jun Nov 87
Regina	Feb Mar Sep 87
Sask Highways	Nov 87
Sask Power	Nov 87
SaskTel	Nov 87

NEW RADIO SYSTEM INFORMATION

Addressable consumer type walkie-talkie		Aug 87
Alta Fish & Wildlife new interconnected mobile radio network		Nov 87
BC Prov Emerg Prog - new Prince George repeater		Nov 87
Can Gen Electric GE-MARC VE 422 MHz trunked system		Aug 87
Cellular Systems	-CANTEL system info, problems in Alberta	Aug 87
	-CellNet (telephone co) systems info	Aug 87
	-Edmonton Telephones new 800 MHz system	Jan 87
	-General info Canadian 800 MHz systems Apr May	Aug 87
	-Law Enforcement monitoring/wiretaps Mar	Aug 87
	-MT&T (Nova Scotia) 800 MHz system	Apr 87
	-Toronto region cellular system problems	May 87
	-Voice dialed cellular phones	Aug 87
Edmonton Police	-412 MHz satellite receiver voter system	Jan 87
	-Mobile Data Terminal (MDT) system	Feb 87

800 MHz Canadian allocations and information	May 87
400 MHz Canadian allocations and information	May 87
Interconnected (telephone) mobile radio networks	Nov 87
London Police Force radio system expansion/changes (scramblers)	Sep 87
MT&T (Nova Scotia) 150 MHz Autotel system	Apr 87
Mississauga Ambulance Computer Aided Dispatch System (CADS)	Nov 87
Motorola Privacy Plus System (800 MHz trunked system)	Feb May 87
Ont Prov Police (OPP) new VHF radio network	Mar Apr 87
St Thomas Police scrambler system test	Sep 87
SARSAT (Satellite Search & Rescue) system	Feb 87
Toronto Police Mobile Data Terminals (MDTs)	Nov 87
Weatheradio Canada radio network Ontario	Sep 87

MISC MATERIAL

Alta Highway Patrol demise	Nov 87
Bearcat Monitor repair (RCMA to the rescue)	Oct 87
Gander Centre radio operator article	Aug 87
Haruteq Frequency Directories (Ontario & Quebec)	Mar Jul 87
Hobby Monitoring Article (including info on London Police)	Mar 87
Impulse radar article	Aug 87
Monitoring Law discussion (re: Sgt Young killing)	Jul Sep Oct 87
Mystery US Fire Dept (VHF Hi Skip)	Oct 87
Pager adventures article	Oct 87
Regina Ambulance service (RAMRAD) takeover	Sep 87
Vancouver Police Sergeant Young killing	Jul 87
Vehicle theft alarm system article	Aug 87

RCMA CANADA COLUMN 1987 INDEX

JANUARY 1987

Hamilton/Wentworth region info, with info on Hamilton/Wentworth Police & Fire, GO Transit, and other info; Victoria region freq list; Edmonton region info, with info on Edmonton Police, Edmonton Telephones cellular, Parkland Ambulance, West Edmonton Mall, Barrhead RCMP; Alberta RCMP 10 Codes.

FEBRUARY 1987

Alta Fish & Wildlife/Highway Patrol info; Edmonton info; Motorola Privacy Plus (800 MHz) info for Edmonton & Regina; Edmonton Police MDT info; info on Alta Power and Trans-Alta Utilities; info on SARSAT.

MARCH 1987

Regina Remand Centre shooting, Regina info; discussion of law enforcement monitoring of cellular systems; article on hobby monitoring, including info on London Police; discussion of new OPP system; info on OPP in London; info on Haruteq Ontario Directory.

APRIL 1987

MT & T (Nova Scotia) 800 MHz cellular and 150 MHz Autotel systems; info on Mobil Oil operations in Nova Scotia; info on Halifax/Dartmouth; info on new OPP freq in Toronto, and info on London, Waterloo, Brampton.

MAY 1987

General info on Canadian 800 MHz systems, including info on cellular systems, trunked systems, and allocations; 400 & 800 MHz Canadian allocations, with info on sharing with USA; info on Toronto region 800 MHz cellular system problems; info on non-standard Toronto Fire Dept 400 MHz allocations; info on Windsor Fire Dept; freq info for the Vancouver area.

JUNE 1987

Freq info on Vancouver; freq list for Fredericton, NB area; VHF Lo skip info; freq list for eastern Ontario area, including info on OPP.

JULY 1987

Discussion of the killing of Sgt Young of the Vancouver PD, and the effects on monitoring laws in Canada; freq list for the Quebec City region; freq list for the Victoria region.

AUGUST 1987

Discussion of new addressable walkie-talkie, voice dialed cellular

phones, troubles with Gander Centre radio operators, impulse radar, and a vehicle theft pager system; info on CANTEL cellular systems in Alberta, with info on CellNet systems; info on CGE 422 MHz trunked system; info on criminals using cellular phones, and law enforcement monitoring; info on cellular encrypters; info on cellular phones providing rides to party-goers; freq list for Alberta, and BC RCMP info.

SEPTEMBER 1987

Info on expansion of Weatheradio Canada network in Ontario; freq list and info on Ont Min of Transport and Communications (MTC); articles on St Thomas Police scrambler test, and info on possible use of scramblers by London Police; info on Regina Ambulance (RAMRAD) takeover; unit number changes for BC Emergency Health Services in the Vancouver area; info on Belcarra-Sasamat, BC Fire Dept; freq changes for Sechelt-Gibson, BC RCMP, and Vancouver Airport Fire Dept.

OCTOBER 1987

Freq list and info for BC Hydro; article and discussion on the life of a pager; story of RCMA assistance in repairing a scanner; freq list and info for London, Windsor, and Toronto area; freq list and info for the BC Lower Mainland, and Victoria, and query on mystery US Fire Dept on skip; articles on monitoring laws, and info on Ottawa and Toronto Police MDTs and scramblers; freq list for Lake Erie/Lake Ontario.

NOVEMBER 1987

Freq list and info for Toronto, Mississauga, Niagara regions; Lethbridge City Police codes; info on cheap repeater for BC Prov Emerg Prog in Prince George; freq and info on new Alta Fish & Wildlife/Highway Patrol radio network, and info on interconnected networks in general; freq list for Alta Govt Telephones (AGT); article on demise of Alta Highway Patrol; Edmonton freq info.

DECEMBER 1987

1987 Canada Column Annual Index.

contact info wanted

This column has two purposes: to help members contact each other, and to help member obtain directly from one another information on various subjects related to 2-way communications monitoring. If you would like to meet, converse or correspond with, other members by telephone, letter, or cassette, this column is the place to state your interest. Remember—those who respond will do so directly, so be sure to provide your phone number, the best time to be called, and/or your address. Write to:

Scott Mattson, 2820 Bridge Ave, Point Pleasant, NJ 08742

Requests for copyrighted material or information considered 'sensitive' by RCMA will not be printed in this column.

INFO WANTED: I would like to receive information regarding ambulance and EMS codes, Erie County Sheriff 10 codes, and any frequencies for security companies and NFTA police in the Buffalo, New York area.
TODD HEILER (NY-338) 5586 James Drive, Hamburg, New York 14075

CONTACT WANTED: I would like to exchange frequency information with RCMA members in the Nassau County, New York area.
LAWRENCE GRALA (NY-395) 272 Anchor Way, Uniondale, New York 11553

INFO WANTED: I would like codes and frequency information including police, sheriff, fire, etc., for the Wilmington, Jacksonville, Onslow, Pender, and New Hanover county areas of North Carolina. Will exchange info.
RANDY WHALER (NC-067) 3636-B Lakefield Dr., Greensboro, NC 27406 (919) 272-0813

INFO WANTED: I would like codes and frequency information on law enforcement, fire, and rescue consisting on any cities or towns located in North Carolina. Will exchange info.
RANDY WHALEY (NC-067) 3636-B Lakefield Dr., Greensboro, NC 27406 (919) 272-0813

Hard to believe that this is the December edition of Digital Communications and Computer Corner, but as Ripley said "Believe it or Not". Not much mail this month (this is getting to be a common phrase lately). A few members wrote with requests for the frequency management database. Also, another member wrote with some information on a BBS that caters to radio and monitoring. I won't include the information, because we all know what a sore subject BBS's are <grin>. I called it and from the looks of it, it could prove informative.

CT-048 submitted the infomation about PDRS wireless modems that was used in last months column. Since I had already obtained the same article a little before hand, I submitted it in last months column. Thanks for the letter CT-048. ANY input to the column is appreciated.

To close out the old and welcome in the new, I will keep this months column to a minimum after some of my previous 'long winded' ones. Maybe Santa will bring some of you those new computers you have been waiting for all year. Happy Holidays.

Index of RCMA articles for Digital Communications and Computer Corner

April: Premier Column of DC & CC

May: What is a Bulletin Board System and how to use it

June: How to select your first computer
Differences in various type computer systems
Printer types and descriptions
Where to shop for computers

July: 800 Mhz frequency management program
File conversions and Null Modem cabling diagrams
ACARS weather system description and map

August: Backing up your files
Changing the 8088 processor chip to gain increased performance on the IBM PC/XT & clones

Sept: Discussion of National RCMA BBS or information system
Frequency Management database program listing

Oct: Introduction and explanation of Packet Radio

Nov: PDRS wireless modem developments

FEDERAL GOVERNMENT and MILITARY

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:

Dennis Biagioli, 607 W. Pleasant Ave, Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine Editor.

Hi! Wow, here we are at the end of another year already. Here are the issue and subject indexes for the past year..

1987 - FEDERAL GOVERNMENT/MILITARY INDEX BY ISSUE

Jan: FEMA "Channel-8 Radio System", DC
Extensive Virginia area feature

Feb: Cherry Point, NC,
Ft. Ord, CA
Tennessee Valley Authority near Chattanooga
F.A.A. Air Route Traffic Control Center UHF frequencies for Chicago Center

Mar: F.A.A. Air Route Traffic Control Center UHF frequencies
"Albuquerque" thru "Ft. Worth"

Apr: Cleveland National Forest
El Toro Marine Station
Seal Beach Naval Weapons Station
Los Angeles Coast Guard Auxiliary
Long Beach Naval Station
March Air Force Base
Griffiss Air Force Base
F.A.A. Air Route Traffic Control Center UHF frequencies
"Ft. Worth" to "Memphis"

May: Minnesota area Profile
F.A.A. Air Route Traffic Control Center UHF frequencies
"Miami" to "New York"

Jun: Denver, CO, area military freqs
Camp Parks Reserve Forces Training Area, CA
Yosemite National Park, CA
Stanislaus National Forest, CA
Ft. Jackson, SC
Shaw Air Force Base, SC
McEntire Air National Guard Base, SC
F.A.A. Air Route traffic Control Center UHF frequencies
"Oakland" to "Washington"

Jul: McDill Air Force Base, FL
Portsmouth Naval Shipyard, VA
Air Force Base UHF frequency table

Aug: Illinois listing (alpha)
"Allenville" to "Great Lakes"

Sep: Illinois listing (concluded)
"Great Lakes" to "Zion"

Nov: U.S. Air Force Association information
Benwater Air Force Base, England
Scott Air Force Base, Illinois
Loring Air Force Base, Maine

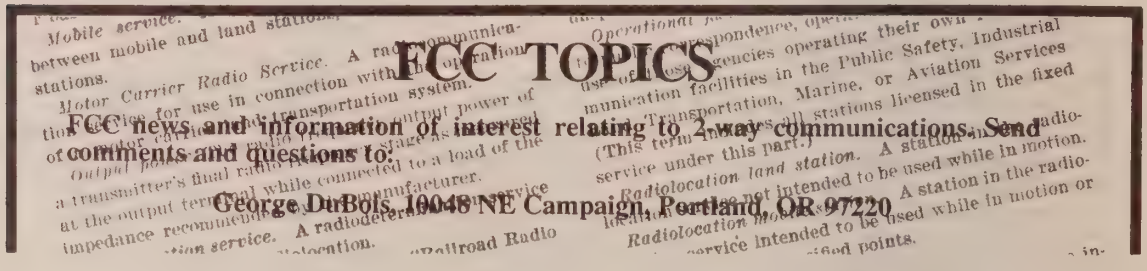
Dec: 1987 FEDERAL GOVERNMENT / MILITARY Index

1987 FEDERAL GOVERNMENT / MILITARY INDEX BY SUBJECT

Air Force Association information	Nov			
Air Force, U.S.				
Benwater A.F.B., England	Nov			
Buckley A.N.G. Base, CO	Jun			
Griffiss A.F.B., NY	Apr			
Langley A.F.B., VA	Jan			
Loring A.F.B., ME	Nov			
March A.F.B., CA	Apr			
McDill A.F.B., FL	Jul			
Minneapolis/St. Paul Int'l A.N.G. & AFRES	May			
Peterson A.F.B., CO	Jun			
Scott A.F.B., IL	Nov			
Shaw A.F.B., SC	Jun			
Air Force Base UHF Aero frequency table	Jul			
Albuquerque Center, FAA, freqs & locations	Mar			
Appomatox Courthouse Nat'l Battlefield, VA	Jan			
Army, U.S.				
Ft. Eustis, VA	Jan			
Ft. Jackson, SC	Jun			
Ft. Monroe, VA	Jan			
Ft. Ord, CA	Feb			
Assateague Nat'l Seashore, VA	Jan			
Atlanta Center, FAA, freqs & locations	Mar			
Back Bay Nat'l Wildlife Refuge, VA	Jan			
Benwater Air Force Base, England	Nov			
Boston Center, FAA, freqs & locations	Mar			
Buckley Air National Guard Base, CO	Jun			
Camp Parks Reserve Forces Training Area, CA	Jun			
Channel-8 Radio System (FEMA), DC	Jan			
Chattanooga, TN, Tennessee Valley Authority	Feb			
Cherry Point, NC, Marine Air Station	Feb			
Chicago Center, FAA, freqs & locations	Feb			
Chincoteague Nat'l Wildlife Refuge, VA	Jan			
Cleveland Center, FAA, freqs & locations	Mar			
Cleveland National Forest, CA	Apr			
Coast Guard Auxiliary				
Los Angeles, CA	Apr			
Colonial Nat'l Historic Park, VA	Jan			
Colorado - Denver area military	Jun			
Denver Area Military Frequencies, CO	Jun			
Denver Center, FAA, freqs & locations	Mar			
El Toro Marine Station, CA	Apr			
F.A.A. Air Route Traffic Control UHF listings	Feb	-	thru -	Jun
F.A.A. Minneapolis/St. Paul International	May			
FEMA "Channel-8 Radio System", DC	Jan			
Fisherman Island Nat'l Wildlife Refuge, VA	Jan			
Ft. Worth Center, FAA, freqs & locations	Mar			
Great Dismal Swamp Nat'l Wildlife Ref., VA	Jan			
Griffiss Air Force Base, NY	Apr			
Harper's Ferry Nat'l Monument, VA	Jan			
Houston Center, FAA, freqs & locations	Apr			
Illinois alphabetical listings	Aug		Sep	
Indianapolis Center, FAA, freqs & locations	Apr			
Jacksonville Center, FAA, freqs & locations	Apr			
Jefferson, Thomas, Nat'l Forest, VA	Jan			
Kansas City Center, FAA, freqs & locations	Apr			
Long Beach Naval Station, CA	Apr			
Loring Air Force Base, Maine	Nov			
Los Angeles Center, FAA, freqs & locations	Apr			
Los Angeles, CA, Coast Guard Auxiliary	Apr			
Manassas Nat'l Battlefield, VA	Jan			
March Air Force Base, CA	Apr			
Marines, U.S.				
Cherry Point, NC, Air Station	Feb			
El Toro Marine Station, CA	Apr			
Mason Neck Nat'l Wildlife Refuge, VA	Jan			
McDill Air Force Base, FL	Jul			
McEntire Air National Guard Base, SC	Jun			
Memphis Center, FAA, freqs & locations	Apr			

Miami Center, FAA, freqs & locations	May
Minneapolis Center, FAA, freqs & locations	May
Minneapolis / St. Paul Int'l Airport ANG/AFRES	May
Minnesota Valley National Wildlife Refuge	May
Nansemond Nat'l Wildlife Refuge, VA	Jan
Navy, U.S.	
Craney Island, VA	Jan
Little Creek, VA	Jan
Long Beach Naval Station, CA	Apr
Norfolk N.C.B., VA	Jan
Norfolk Naval Shipyard, VA	Jan
Oceana N.A.S., VA	Jan
Portsmouth Naval Shipyard, VA	Jul
New York Center, FAA, freqs & locations	May
Oakland Center, FAA, freqs & locations	Jun
Peterson Air Force Base, CO	Jun
Portsmouth Naval Shipyard, VA	Jul
Presque Isle Nat'l Wildlife Refuge, VA	Jan
Prince William Nat'l Forest Park, VA	Jan
Richmond Nat'l Battlefield, VA	Jan
Salt Lake City Center, FAA, freqs & locations	Jun
Scott Air Force Base, Illinois	Nov
Seattle Center, FAA, freqs & locations	Jun
Shaw Air Force Base, SC	Jun
Shenandoah Nat'l Park, VA	Jan
Stanislaug National Forest, CA	Jun
Tennessee Valley Authority, Chattanooga, TN	Feb
Veterans Administration (V.A.)	
Hampton, VA	Jan
Virginia Beach, VA, Fish & Wildlife Service	Jan
Washington, Booker T., Nat'l Monument, VA	Jan
Washington Center, FAA, freqs & locations	Jun
Washington, George	
Nat'l Birthplace, VA	Jan
Nat'l Forest, VA	Jan
Yorktown, VA, Colonial Parkway	Jan
Yosemite National Park, CA	Jun

That should take care of 1987. I hope you have the best of Holiday Seasons.



FCC TOPICS

FCC news and information of interest relating to 2-way communications. Send comments and questions to:

George DuBois, 10048 NE Campaign, Portland, OR 97220

1986 - 1987 Bi-Annual Subject Index

Subject	Final Order	Proposal
Land Mobile Services		
Frequency coordination	7/86	5/83, 3/85
Direct access paging on l.m. channels	8/87	11/86
Trunking in additional bands		11/87
Bus. Radio Serv., Airport Util. freqs.	8/86	1/86
Reallocation of T-band ch.16 in L.A.	5/86	8/85, 3/85
Increased power, Sp. Indust. UHF offsets	5/87	8/86
Mobile Satellite Service	2/87	6/85
420-430 mHz allocations in NE U.S.	6/87, 1/86	8/86, 8/85
800 mHz band		
point-to-point data transmissions	4/87	7/86
Elimination of Subpart M		4/87
Increased mileage separation, Seattle		5/87
Interservice sharing, SMRS/Indust. chs.	7/87	8/86
SMRS user licensing	8/86	1/86

Subject	Final Order	Proposal
Telephone co. licensing as SMR's		4/86
935-941 mHz band	2, 4, 9/87	6/85
866-869 mHz Public Safety band	2/87	9/87, 6/85
Maritime Radio Service		
Mob. tel.service to land mobile stations	4/87	5/86
Radar transponders in VHF bands	6/87	1/86
Reduced power on Ch. 13	1/86, 9/87	3/85
Overlap of Marine Tel. applicants	10/87	
Maritime use of 406.025 for EPIRBs		4/87
Voice EPIRBs		10/87
Aviation Services		
Digital admin. messages in enroute serv.	11/86	1/86
Unicom stations	8/86	7/84
Land mobile use of 122.9	4/86	11/85
Simplified licensing	2/87	
Licensing of portables	4/86	11/85
Rewrite of Part 87, minor amendments		11/87
INMARSAT satellite		8/87
Voice ELTs		10/87
Broadcast Auxiliary Services		
Low Power Aux. - vacant TV channels	4/87	5/86
ENG use of vacant TV channels		10/87
STL use of vacant TV channels	3/86	
Remote Pickup use by CATV Companies	5/86	
Common Carrier Services		
Cellular Telecommunications Service	2/86, 4/86	
Additional channels	2/87	6/85
Financial assurance	1/88	
Licensing amendments	3/86, 1/88	
Applications for suburban areas	8/87	
Manual wireline/RCC block selection	3/86	
Reduction of construction period	11/86	3/86
Rural Service Areas	10/86, 9/87	4/86
Privacy warning labels	11/87	
Separate subsidiary requirement		1/88
Paging in Hi and UHF bands		9/87
Rural Radiotelephone Serv at 800 mHz		5/87
Uniform Air/Ground telephone rates	11/87	10/86
Preemption of state regulation	7/86	
Part 15		
Equipment authorization, transceivers	10/87	
Equipment authorization, simplification		10/87
Increased power, remote control devices		4/87
Perimeter protection systems, tv chs.2-6	6/87	11/85
Part 94 Fixed service	12/86	
Additional bands/sharing	6/87	3/86
12.5 kHz spacing, 928/952 mHz bands		5/87
Low power computer links		9/86
Fixed bands at 932/941 mHz		7/87, 5/85
Part 95 Personal Radio Services		
GMRS reallocation/Consumer Radio Service	8/87	5/86
GMRS improvement		1/88
Part 97 Amateur Radio Service		
Novice use of 220 mHz	5/87	8/86
Reallocation of 220-222 mHz band		6/87
Automatic operation	4/86	7/85
Multiplex use above 902 mHz	6/87	9/86
New WARC bands	4/86	
Limited preemption of local regulations	1/86	12/84
Fixed use below 220 mHz	7/86	
Miscellaneous		
License fees	5/87	10/86,9/85
Programable transceivers		5/86, 9/87
Environmental impact	7/86	9/85, 5/82
RadioDetermination Satellite Service	1/86	12/84
Administration of operator licensing		2/87
Public access to license data	1/87	11/84,9/83
Allocation table	3/87	
Date of last Index	12/85	
Date of next Index	12/92	

INTERNATIONAL

This column is for reporting 2-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to:

Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902

Another year has come and gone, and by the time you read this, we will be travelling in Israel. Our plans call for a two week trip and I will be taking along at least a couple of radios. Our last trip to Israel was way back in 1979. At that time I brought along a Bearcat 250 and a small crystal controlled Regency and hoped for the best. The only frequency information I had was some sketchy notes left over from our very first trip there in 1974. In those early days, all I had was a 5 band Lafayette tunable, portable radio. Sensitivity and selectivity were poor and the best one could hope for was that the large megahertz readings would be correct. There would be more to hear in '79 than in '74 and this time we go armed with a list of some 200 loggings and with a fairly good idea of what is where in the Israeli assignment spectrum.

I will be using my Pro-30 and Sony ICF-76000D but the shinning addition will be a European Pro-30 that I was able to obtain from a friend in the U.K. This radio, made for the European market and unlike the U.S. model which covers the 30-50 MHz. low band, can cover 66 to almost 90 MHz. There are a considerable number of active transmissions in that region, all of which I missed the last time. But even better that this radio is the fact that I will be meeting with an very active monitor. With some luck he will have in his possession a Pro-2004 with all of the enhancements recently published in Popular Communications. From his vantage point just east of Tel Aviv, he will be able to easily monitor traffic from most of the State of Israel [which is about the size of the State of New Jersey] as well as signals from Egypt to the west, Lebanon to the north, Syria and Jordan [north and east] and possibly even Saudi Arabia to the south and west. That sounds incredible, but the distances in that area are much smaller than we Americans envision. One hundred air miles covers a lot of countries in that area.

Up to now, you have probably noticed a glaring absence of listings for such places as Israel or Northern Ireland. This is due to the sensitive nature of conditions in these areas. With a native speaking, experienced monitor in Israel, we can now remove the sensitive information and present some listings of a non-sensitive nature. I hope to have such a listing for you in the very near future. As soon as we return home, I will begin to compile that list .

****

December is the month in which we give you a listing of columns from the previous two years. In order that the Newsletter's size doesn't get out of hand, we try to limit the size of the columns. But so that you don't feel cheated, I am going to present you with the following additional information.

I have mentioned on a number of occasions that there are great changes occuring in the United Kingdom with respect to frequencies allotments. All of the PMR [public mobile radio] transmissions are moving out of the 96-102 MHz area. The Oxford Group, who have been kind enough to send us information before, again sends us the following new changes:

THAMES VALLEY POLICE FREQUENCIES

OLD FREQUENCIES			NEW FREQUENCIES	
base	mobile	CALLS	base	mobile
98.4000	83.1000	CH-1 M2HA [MAINLY OXFORDSHIRE]	154.9500	146.0125
98.6500	83.3500	CH-2 M2HB [MAINLY BUCKINGHAMSHIRE]	154.8750	146.0375
97.9500	83.2250	CH-3 M2HT [C.R.O. CHANNEL]	154.9250	146.0625
98.5500	82.8250	CH-4 M2HU [MAINLY BERKSHIRE]	154.8375	146.2750
98.2250	82.6250	CH-5 M2HY [OPS CHANNEL]	154.7750	146.3000

When the changeover is 100% complete, the new system will allow a police vehicle in the Thames Valley area to communicate with any other police vehicle in the country. The new system has some 225 channels while the present [old] system in the Thames Valley only has five.

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And from Ed [MA-017]: via World of Radio SW Program

JAMAICA

45.580 Horse Racing-a private organization
45.800 English Racing-gov't freq. for racing
158.475 Horse Racing-a private organization

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And finally, the year's listings:

ISSUE	COUNTRY	TOPIC	PAGE
86/01	MEXICO	TLAXCALA	36
86/01	UNITED KINGDOM	FREQUENCIES-ADDITIONS & CORRECTIONS	36
86/01	MEXICO	PUEBLA	36
86/01	MEXICO	MEXICO CITY	37
86/01	MEXICO	CUERNAVACA	36
86/01	CUBA	AERO RADIO FREQUENCIES [VLF/HF/VHF]	34
86/02	MEXICO	GUADALAJARA	36
86/02	MEXICO	ESTADO DE MEXICO	36
86/03	MEXICO	GUADALAJARA	38
86/04	NO COLUMN		
86/05	MEXICO	SONORA	33
86/06	MEXICO	NOGALES	32
86/06	NETHERLANDS	FREQUENCIES	34
86/06	NEW ZEALAND	AIR FREQUENCIES	34
86/07	IRELAND, REPUBLIC OF [EIRE]	DUBLIN COUNTY	32
86/08	IRELAND, REPUBLIC OF [EIRE]	DUBLIN COUNTY	25
86/09	IRELAND, REPUBLIC OF [EIRE]	DUBLIN COUNTY	34
86/10	BELGIUM	FREQUENCIES	34
86/10	UNITED KINGDOM	BAND MANCHESTER, NEW SYSTEM	33
86/10	IRELAND, REPUBLIC OF [EIRE]	BAND PLAN	33
86/11	IRELAND, REPUBLIC OF [EIRE]	BAND PLAN	29
86/12	COLOMBIA	EL CORREJON MINES	35
86/12	SWEDEN	TRAIN TO TRAIN RADIO COMMUNICATIONS	34
86/12	NORWAY	TRAIN TO TRAIN RADIO COMMUNICATIONS	34
86/12	CHINA, PEOPLE'S REPUBLIC OF	CELLULAR PHONE SYSTEMS	35
86/12	UNITED KINGDOM	BAND III OPENS	34
86/12		COUNTRY SORT 1985 AND 1986	36
86/12		ISSUE SORT 1985 AND 1986	36
87/01	GERMANY, FEDERAL REPUBLIC OF	FREQUENCIES	30
87/02	GERMANY, FEDERAL REPUBLIC OF	FREQUENCIES	32

ISSUE	COUNTRY	TOPIC	PAGE
87/03	WORLD	MAJOR CELLULAR SYSTEM STANDARDS	37
87/03	MEXICO	CANCUN-A QUICK LOOK	38
87/03	GERMANY, FEDERAL REPUBLIC OF	FREQUENCIES	36
87/03	UNITED KINGDOM	BRITISH RAIL-BAND III FREQUENCIES	38
87/04	GERMANY, FEDERAL REPUBLIC OF	MILITARY STATIONS OF 1970's	42
87/05	GERMANY, FEDERAL REPUBLIC OF	MILITARY STATIONS OF 1970's	46
87/05	MEXICO	PLAYA DEL CARMEN	48
87/05	DOMINICAN REPUBLIC	FREQUENCIES	48
87/05	BAHAMAS	NASSAU (NEW PROVIDENCE ISLAND)	47
87/05	GRAND CAIMAN ISLAND	GEORGETOWN	48
87/05	JAMAICA	FREQUENCIES	48
87/05	VIRGIN ISLANDS (U.S.)	ST. THOMAS	47
87/05	VIRGIN ISLANDS (U.S.)	ST. CROIX	47
87/06	UNITED KINGDOM	SCOTLAND	41
87/07	BAHAMAS	FREEPORT (GRAND BAHAMA ISLAND)	32
87/08	BAHAMAS	FREEPORT (PART TWO)	45
87/09	BAHAMAS	FREEPORT (PART THREE)	45
87/10	EGYPT	FREQUENCIES	33
87/11	NETHERLANDS	FREQUENCIES	37
87/11	UNITED KINGDOM	SCOTLAND	36
87/11	ISRAEL	FREQUENCIES	37
87/12		ISSUE SORT 1986 AND 1987	..
87/12		COUNTRY SORT 1986 AND 1987	..
87\12	UNITED KINGDOM	THAMES VALLEY-NEW FREQUENCIES	..
87\12	JAMAICA	FREQUENCIES	..

INTERNATIONAL COLUMN-COUNTRY SORT

COUNTRY	TOPIC	ISSUE	PAGE
	ISSUE SORT 1985 AND 1986	86/12	36
	ISSUE SORT 1986 AND 1987	87/12	..
	COUNTRY SORT 1986 AND 1987	87/12	..
	COUNTRY SORT 1985 AND 1986	86/12	36
BAHAMAS	FREEPORT (PART THREE)	87/09	45
BAHAMAS	FREEPORT (PART TWO)	87/08	45
BAHAMAS	NASSAU (NEW PROVIDENCE ISLAND)	87/05	47
BAHAMAS	FREEPORT (GRAND BAHAMA ISLAND)	87/07	32
BELGIUM	FREQUENCIES	86/10	34
CHINA, PEOPLE'S REPUBLIC OF	CELLULAR PHONE SYSTEMS	86/12	35
COLOMBIA	EL CORREJON MINES	86/12	35
CUBA	AERO RADIO FREQUENCIES (VLF/HF/VHF)	86/01	34
DOMINICAN REPUBLIC	FREQUENCIES	87/05	48
EGYPT	FREQUENCIES	87/10	33
GERMANY, FEDERAL REPUBLIC OF	FREQUENCIES	87/03	36
GERMANY, FEDERAL REPUBLIC OF	FREQUENCIES	87/02	32
GERMANY, FEDERAL REPUBLIC OF	FREQUENCIES	87/01	30
GERMANY, FEDERAL REPUBLIC OF	MILITARY STATIONS OF 1970's	87/04	42
GERMANY, FEDERAL REPUBLIC OF	MILITARY STATIONS OF 1970's	87/05	46
GRAND CAIMAN ISLAND	GEORGETOWN	87/05	48
IRELAND, REPUBLIC OF (EIRE)	DUBLIN COUNTY	86/08	25
IRELAND, REPUBLIC OF (EIRE)	DUBLIN COUNTY	86/09	34
IRELAND, REPUBLIC OF (EIRE)	BAND PLAN	86/10	33
IRELAND, REPUBLIC OF (EIRE)	DUBLIN COUNTY	86/07	32
IRELAND, REPUBLIC OF (EIRE)	BAND PLAN	86/11	29
ISRAEL	FREQUENCIES	87/11	37
JAMAICA	FREQUENCIES	87/05	48
JAMAICA	FREQUENCIES	87\12	..
MEXICO	GUADALAJARA	86/02	36
MEXICO	GUADALAJARA	86/03	38
MEXICO	SONORA	86/05	33
MEXICO	CANCUN-A QUICK LOOK	87/03	38
MEXICO	CUERNAVACA	86/01	36
MEXICO	TLAXCALA	86/01	36

MEXICO	PUEBLA	86/01	36
MEXICO	PLAYA DEL CARMEN	87/05	48
MEXICO	NOGALES	86/06	32
MEXICO	ESTADO DE MEXICO	86/02	36
MEXICO	MEXICO CITY	86/01	37
NETHERLANDS	FREQUENCIES	87/11	37
NETHERLANDS	FREQUENCIES	86/06	34
NEW ZEALAND	AIR FREQUENCIES	86/06	34
NO COLUMN		86/04	
NORWAY	TRAIN TO TRAIN RADIO COMMUNICATIONS	86/12	34
SWEDEN	TRAIN TO TRAIN RADIO COMMUNICATIONS	86/12	34
UNITED KINGDOM	BAND III OPENS	86/12	34
UNITED KINGDOM	FREQUENCIES-ADDITIONS & CORRECTIONS	86/01	36
UNITED KINGDOM	BAND MANCHESTER, NEW SYSTEM	86/10	33
UNITED KINGDOM	SCOTLAND	87/11	36
UNITED KINGDOM	BRITISH RAIL-BAND III FREQUENCIES	87/03	38
UNITED KINGDOM	SCOTLAND	87/06	41
UNITED KINGDOM	THAMES VALLEY-NEW FREQUENCIES	87\12	..
VIRGIN ISLANDS [U.S.]	ST. THOMAS	87/05	47
VIRGIN ISLANDS [U.S.]	ST. CROIX	87/05	47
WORLD	MAJOR CELLULAR SYSTEM STANDARDS	87/03	37

Until next month.... קרמית כהן היקי

LISTENERS' PROFILE

Joe M. Lewis, 750 Scotland St., Dunedin, FL 34698

This column is for special projects that explain various systems in detail. Frequencies and radio codes of municipal agencies and certain federal government agencies may be listed, as well as those of large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible. If you would like to submit such a report, please follow No. 8 on the inside front cover of the Newsletter.

WELCOME TO ANOTHER ROUND OF THE LISTENER'S COLUMN.
I MUST ASK, IF I CAN NOT READ IT, I CAN NOT PRINT IT. AND NOW ON TO THE INFO.

CENTRAL CALIFORNIA, BY UNKNOWN

42.34	CHP BLUE	42.52	CHP YELLOW BASE
42.56	CHP WHITE BASE	42.66	CHP ORANGE MOBILE
42.88	CHP ORANGE BASE	151.235	DEPT. OF WATER T-2
154.400	MERCED COUNTY FIRE	154.890	MERCED COUNTY SHERIFF
154.920	CLEMARS	155.895	CITY OF GUSTINE
45.42	TUOLUMNE COUNTY SHERIFF	151.105	DEPT OF WATER
151.430	FISH AND GAME	153.770	STANISLAUS CO. FD
153.995	MARIPOSA COUNTY	463.000	MED ONE
155.385	MEDFLIGHT	155.265	WESTSIDE HOSPITAL
155.265	LODI SCHOOL DISTRICT	158.730	STANISLAUS SO 1
158.865	STANISLAUS CO. SO 2.	168.75	STANISLAUS NAT. FOREST
151.475	SIERRA NATIONAL FOREST	171.400	SIERRA NAT. FOREST
172.650	YOSEMITE NATIONAL FOREST	171.800	YOSEMITE FOREST
ALSO HEARD CHP TRAFFIC ON 171.800		160.890	SP R.R. PBX
161.550	SP RAILROAD ROAD CHANNEL	461.125	ARGICULT. BUSINESS
455.250	TV .CHANNEL 30 NEWS, FRESNO	45.00	4 RIVERS STATE PARKS
151.175	CDF, TUOLUMNE/SAN ANDREAS	151.265	CDF REGION 4
151.355	CDF STATEWIDE	151.400	CDF, MORGAN HILL
151.445	CDF, REGION 5	151.460	CDF, MARIPOSA/MADERA
151.280	CDF, BLUE AIR	151.295	CDF, GRENN AIR
151.310	CDF, YELLOW AIR	151.22	CDF, RED NET (HANDHELD)
120.000	MODESTO TOWER	122.000	INFLIGHT WEATHER
122.800	UNICOM	122.900	UNICOM
122.950	* HEARD TWO PLANES"	125.100	STOCKTON
132.950	OAKLAND CENTER	134.375	OAKLAND CENTER

162.550 NOAA WEATHER

VACAVILLE, SOLANO COUNTY CALIF UNKNOWN

154.860	VACAVILLE POLICE F3	154.145	VACAVILLE FD 4

154..340	SOLANO COUNTY FIRE DISPATCH	155.490	SOLANO SO. F-1
42.400	CHP PURPLE BASE, SOLANO COUNTY	42.160	CHP PURPLE MOBILE
156.000	SOLANO COUNTY FD DISPATCH	155.13	SOLANO SO TACT, F3
154.92	CLEMARS, SOLANO SO F2	155.085	SOLANO CO. PW(ALL CITIES)
155.400	HOSPITAL TO AMBULANCE	453.500	SOLANO COUNTY MISC.
151.130	SOLANO COUNTY ROADS	151.145	SOLANO COUNTY PARKS
153.605	PG & E	151.415	FISH& GAME REGION 3
451.100	SOLANO COUNTY IRRIGATION DEPT.	122.700	NUT TREE AIRPORT
163.460	TRAVIS AFB SECURITY	163.375	TRAVIS, AFB AIR POLICE
155.775	BENICIA POLICE	155.940	BENICIA FIRE
154.830	DIXON AND RIO VISTA POLICE F3	154.085	DIXON FIRE
483.0875	FAIRFIELD POLICE BLUE F1	482.4625	FAIRFIELD PD BROWN F2
482.7875	FAIRFIELD FIRE F4	483.1625	FAIRFIELD PW F5
155.520	SUISUN POLICE F3	155.91	VALLEJO POLICE F1
482.9875	VALLEJO FIRE	154.83	VALLEJO TACTICAL F2
155.550	VACAVILLE CMF NORTH SITE	155.865	VACAVILLE CMF SOUTH
161.730	KUIC, 95.3, VACAVILLE	151.985	PAC. BELL MAINT.
151.340	CDF, SOLANO COUNTY	441.150	KA6CHJ, RACES/ARES/SCARS

SAN DIEGO BY UNKNOWN

127.300	SAN DIEGO APPROCH	118.3	LINDBERGH TOWER
128.6	LOS ANGELES CENTER	127.4	LOS ANGELES CENTER
122.0	FLIGHT WATCH	453.925	S.D. COUNTY SHERIFF F3
453.725	S.D. SHERIFF F1 CAR / CAR	453.500	SDSO F4 DISPATCH
154.235	NORTH COUNTY FIRE	154.310	SD FIRE
42.12	CHP GOLD	42.88	CHP ORANGE
462.975	LIFEFLIGHT DISPATCH	157.100	USCG CH. 22
156.800	MARINE EMERGENCY CH. 16	154.160	STATE OES F1
154.22	OES F2	160.665	RAILROAD
130.100	L.A. AIRINC.	129.200	SAN DIEGO AIRINC
450.412	KFMB TV 8 NEWS	450.437	KCST TV 39 NEWS
161.700	KGTV TV 10 NEWS	450.712	AAA AUTO CLUB**
126.200	MIRAMAR NAS CAMP PENDLETON	123.200	CAMP PEND. RISTRICTED
168.750	USFS F1, DISPATCH	138.600	CAMP PEND. FIRE F1
30.35	CAMP PENDLETON CRASH NET		

**= COULD THIS BE 452.712, AAA ARE LICENSED ON 452's & 150's(ed.)

GLOUCESTER COUNTY N.J. BY LES MATTSON, NJ187

450.550	TV-3 ASSIGNMENT DESK TO CREWS	44.94	NJSP TROOP A
44.66	NJSP TROOP B	44.62	NJSP TROOP C
155.190	NJSP TROOP D	44.78	NJSP BELLMAWR
155.190	NJSP MOORESTOWN	171.3375	MARINE 16 REPEATER
154.130	GLOUCESTER CO. FIRE F1	154.355	GLOUCESTER CO.FD F2
155.265	GLOUCESTER CO. AMBO EMS 1	153.695	SOUTH JERSEY GAS
46..36	ATLANTIC ELECTRIC	151.985	NEW JERSEY BELL
153.95	PHILADELPHIA FD,MULTI-ALARMS	453.450	PHILA. AIRPORT PD
156.210	SOUTH JERSEY PD INTERSYSTEM	155.235	CAMDEN CO. AMBO
155.295	SALEM COUNTY AMBULANCE	151.865	DEPTFORD MALL
159.375	NJ FOREST FIRE SERVICE	158.970	GLOUCESTER CO. PD
158.82	PAULSBORO PD SWITCHOVER	154.085	GREENWICH TWSP PD
159.105	MANTUA TWSP PD CH.4	158.79	MANTUA TWSP PD CH.3
158.835	WEST DEPTFORD PD SWITCHOVER	158.76	WOODBURY PD SWITCHOVER
159.150	DEPTFORD TWSP PD SWITCHOVER	158.865	MONROE TWSP PD SWITCHOVER
158.895	GLASSBORO POLICE SWITCHOVER	158.805	WASHINGTON TWSP PD
155.145	WESTVILLE POLICE SWITHCOVER	160.560	CONRAIL POLICE
159.345	N.J. CONSERVATION DEPT.		

WORCESTER, MASS BY JIM MA172

460.050	WORCESTER POLICE, F1	460.15	WORCESTER PD F2
460.025	WORCESTER POLICE F3	460.575	WORCESTER FD F1
460.525	WORCESTER FIRE F2	460.950	WORCESTER CITY AMBO
155.16	MASS HOSPITAL LIFEFLIGHT	37.98	WORCESTER DPW
121.900	WORCESTER AIRPORT	122.800	WORCESTER AIRPORT
120.500	WORCESTER AIRPORT	159.030	MASS TURNPIKE MAINT
42.40	MASS STATE POLICE	42.44	MASS STATE POLICE
162.55	WEATHER SERVICE	154.57	WORCESTER CENTER, SECURITY
39.76	MASS MOTOR VEHICLES	46.58	WORCESTER LOCAL GOV
47.48	STATE PUBLIC WORKS	464.475	HOLLY CROSS COLLEGE SECURITY

421.575 WORCESTER POLYTECH SECURITY
31.500 MASS FISH & WILDLIFE
48.30 MASS ELECTRIC CO. MAINT
31.46 MASS FISH & WILDLIFE
33.04 ST. VINCENT HOSP SECURITY
160.800 CONRAIL RAILROAD

ATLANTIC COUNTY NJ BY BOB NJ214

155.505 NJSP PARKWAY
852.1625 NJSP PARKWAY
858.4625 NJSP AC EXPRESSWAY
453.900 NJSP AC EXPRESSWAY, MAINT.
44.98 NJSP TROOP A F4
155.445 NJSP MARINE BUREAU
157.050 USCG CH. 21
156.650 USCG CH.13 BRIDGES
156.210 ATLANTIC COUNTY HOT LINE
460.150 ATLANTIC CITY TAC 1
460.325 ATLANTIC CITY PD TAC 3
151.265 NJ FOREST FIRE
151.325 NJ FISH & WILDLIFE
161.385 SHORE FAST LINE R.R.
155.175 MEDCOM DISPATCH
146.745 2 METER HAM
154.905 NJSP PARKWAY
851.3375 NJSP PARKWAY
859.4625 NJSP AC EXPRESSWAY
44.94 NJSP TROOP A
44.78 NJSP TROOP A, F5
156.800 USCG CH. 16
157.100 USCG CH. 22
162.400 NOAA WEATHER
155.13 ATLANTIC CITY PD DISPATCH
460.425 ATLANTIC CITY PD TAC 2
154.31 ATLANTIC COUNTY MUTUAL AID
151.19 NJ BUREAU OF AIR & WATER
160.335 SHORE FAST LINE R.R.
460.025 BRIGANTINE POLICE
145.150 2 METER HAM
145.68 2 METER HAM EMERGENCY

WASHINGTON, D.C. , MONTGOMERY COUNTY

39.32 MSP BARRACK N, ROCKVILLE
160.260 METRORAIL, RED LINE
161.385 TRANSIT POLICE
166.925 US PARK POLICE, DISPATCH F2
166.850 US PARK POILCE F4
169.200 SMITHSONIAN INS. SECURITY F1
151.280 MNCPP PARK PD CH. 1
153.950 MONTGOMERY CO. FIRE FIREGROUND
154.28 AREA FIRE MUTUAL
496.512 METROBUS D.C./MONT. CO. F3
496 562 METROBUS D.C./MONT. CO. F5
496.612 METROBUS SUPERVISORS F7
154.205 D.C. FIRE DEPT. F4
460.350 D.C. METRO PD D-1 DISPATCH
460.500 METRO PD D-4 DISPATCH
460.150 METRO PD D-6 DISPATCH
460.100 METRO PD NW TAC
159.150 METRO PD CITYWIDE
155.19 MSP BARRACK/BARRACK
160.380 METRORAIL,ORANGE/BLUE
166.725 US PARK POLICE F1
167.075 US APRK POLICE F3
411.450 NIH SECURITY
169.037 SMITHSONIAN F2
151.340 MNCPP PARK PD F2
154.160 MONT. CO. FIRE DISPATCH
496.462 METROBUS CALLING F1
496.537 METROBUS D.C./MONT. CO. F4
154.19 D.C. FIRE DISPATCH
154.235 D.G. FIRE DEPT. F2
460.250 METRO POLICE D-2 DISPATCH
460.025 METRO PD D-3 DISPATCH
460.200 METRO PD DISTRICT 5 DISPATCH
460.475 METRO PD D-7
460.325 METRO PD CITYWIDE
453.550 P-MARS

NORTHWEST OHIO AREA BY DARYLL

460.475 LUCAS COUNTY SHERIFF
45.26 OHIO HIGHWAY
45.10 OHIO HIGHWAY PATROL F4
460.625 SPRINGFIELD TWP FIRE DEPT.
453.450 MONCLOUS TWP FIRE DEPT.
118.100 TOLEDO EXPRESS AIRPORT TOWER
155.34 AMBULANCE HOSPITAL
152.12 PAGING
42.580 MICHIGAN STATE POLICE ERIE POST
44.94 OHIO HIGHWAY PATROL F1
45.02 OHIO HP AIRCRAFT F3
462.950 REMSND DISPATCH
33.74 LUCAS COUNTY FD DISPATCH
154.935 LEERN F1
118.400 DETROIT METRO AIRPORT TOWER
856.1375 DETROIT PD GANG SQUAD
122.800 UNICOM

SOTHERN SAN GABRIEL VALLEY, BY DAVE CALA 691

154.43 LA COUNTY L.A. DISPATCH
154.34 LA COUNTY FIRE VALLEY
154.250 FIRE DISPATCH, COMPTON,MONTEBELLO,DOWNEY,SANTA FE SPRINGS,LYNWOOD,VERNON
153.995 FIRE DISPATCH, ALHAMBRA, SAN GABRIEL, MONTEREY PARK, SOUTH PASADENA

155.730 MONTEBELLO POLICE F1
155.565 MONTEREY PARK POLICE F1
471.137 ALHAMBRA POLICE F1
460.175 SAN GABRIEL POLICE F1
153.740 CAL STATE, LA, POLICE
39.72 LASO EAST TAC, EDWARD CHANNEL
39.40 LASO NORTH TAC NORA CHANNEL
39.64 LASO TEMPLE STATION BASE
42.34 CHP STATEWIDE, BLUE CHANNEL
42.46 CHP CENTRAL LA BLACK, BASE
155.865 MONTEBELLO POLICE F2
155.415 MONTEREY PARK POLICE F2
471.012 ALHAMBRA POLICE F2
460.075 SAN GABRIEL POLICE TAC
39.48 LASO CAR/CAR,CHARLIE CHANNEL
39.60 LASO HELICOPTOR/CAR HENERY CH
39.32 LASO WEST TAC WILLIAM CHANNEL
39.22 LASO TEMPLE STATION MOBILE
42.18 CHP STATEWIDE BLUE MOBILE
42.70 CHP CENTRAL LA BLACK,MOBILE

SOUTHERN SAN GABRIEL VALLEY CONTINUED

42.52	CHP EAST LA YELLOW BASE	42.30	CHP EAST LA MOBILE
154.28	LA FIRE MUTUAL AID	506.737	LAPD CENTRAL & TRAFFIC
506.937	LAPD RAMPART & NE DIVISIONS	507.187	LAPD HOLLENBECK & NEWTON
154.83	LAPD TAC 1	154.77	LAPD TAC 2
154.92	LAPD TAC 4	506.587	LAPD CENTRAL TAC

SOUTHEAST NEW YORK STATE BY JACK, NY359

453.475	YONKERS POLICE F1	453.275	YONKERS POLICE F2
460.400	WHITE PLAINS POLICE	460.275	MT. VERNON POLICE
155.13	NEW ROCHELLE POLICE	155.73	ALDSLEY & GREEBURGH PD
453.425	NY STATE TRUWAY POLICE	46.500	YONKERS FIRE DEPT.
465.600	YONKERS FIREGROUND	476.912	NYPD BRONX PCT 41,43,45
155.31	WESTCHESTER CO. PKWY POLICE	476.662	NYPD BRONX PCT.47,50,52
476.686	BRONX NYPD	476.962	NYPD BRONX PCTS.42,46,48
154.755	LARCHMONT POLICE	478.212	BRONX EMS
470.837	NYPD SOD F1	119.700	WESTCHESTER TOWER
126.750	WESTCHESTER APPROCH	119.100	JFK TOWER
120.800	JFK APPROCH	125.250	JFK APPROCH
126.05	JFK APPROCH	126.400	JFK APPROCH
127.4,	127.600,127.850, 128.55 ALL	JFK APPROCH	
118.700	LA GUARDIA TOWER	162.55	WEATHER NYC

NYC MANHATTEN BY DAVE NY364

461.150	CITYWIDE NEWS RADIO	154.250	FDNY MANHATTEN DISPATCH
154.430	FDNY CITYWIDE COMMAND	470.835	NYPD SOD/ESV
476.737	NYPD CITYWIDE 1	470.387	NY TRANSIT AUTHORITY
478.837	EMS MANHATTEN DISPATCH	478.012	EMS CITYWIDE, COMMAND
856.987	NEW EMS CITYWIDE COMMAND	155.34	HEAR SYSTEM
155.280	HEAR SYSTEM	47.42	RED CROSS
453.425	NY STATE POLICE TROOP T, CH.A	453.525	NY STATE PD TROOP T CH.B
462.600	REACT	154.680	NY SPEN,SP,EMERGENCY NET
155.190	NY STATE POLICE, "RED" TURNPIKE	118.3	NEWARK TOWER
118.700	LA GUARDIA TOWER	119.1	JFK TOWER
450.050	WCBS TV NEWSDESK	161.670	WNBC NBC NEWSDESK
455.050	WABC TV NEWSDESK	450.187	WNYW TV FOX NEWSDESK
450.487	WWOR TV NEWSDESK	450.250	WOR RADIO TRAFFIC CHOPPER
450.450	WINS RADIO NEWSDESK	452.975	SHADOW TRAFFIC
453.000	NEW YORK POST	157.100	USCG CH. 22

BALTIMORE MARYLAND

46.46	BALTIMORE COUNTY FIRE, DISPATCH	46.28	BALTO CO. EMS CH. 2
46.52	BALTO COUNTY FIREGROUND EAST, CH.3	46.56	BALTO CO. FG WEST, CH. 4
39.62	BALTO COUNTY POLICE CH.D SE	39.56	BALTO CO. PD CH.C COUNTYWIDE
154.25	HOWARD COUNTY FIRE DISPATCH	154.28	FIRE MUTUAL AID
462.950	EMRC CALLING CHANNEL	462.975	SYSCOM MEDEVAC HELICOPTORS
159.090	HOWARD COUNTY POLICE CH.1	155.115	HOWARD CO. POLICE CHANNEL 4
154.220	HOWARD COUNTY POLICE CH.2	154.01	ANNE ARUNDEL CO. FD DISPATCH
154.34	ANNNE ARUNDEL CO. FD RESPONCE	154.175	A.A. COUNTY FIREGROUND
494.312	ANNE ARUNDEL POLICE NORTHERN DISP.	154.31	BALTO CITY FD RESPONCE
154.415	BALTO CITY FIRE DISPATCH	154.145	BALTO CITY EMS DISPATCH
147.03	BALTO HAM RADIO TV SOCIETY	146.67	BALTO HAM RADIO CLUB
39.100	MSP STATEWIDE	39.380	MSP BARRACKS R & K

I WILL CONTINUE WITH BALTIMORE MD NEXT TIME AROUND WITH OTHERS THERE WERE SOME I COULD NOT READ.

RCMA has a Telephone Number

The new RCMA telephone number is (714)545-9551. It's 'manned' by an answering machine, and while it's been established for RCMA members, its use is limited. You may leave a message concerning delivery or renewal problems; you cannot use it to request club information or order back issues. Appropriate response will be made by letter or postcard, not by telephone. Any call regarding a membership problem MUST be accompanied by your membership number.

Please remember that it is a toll call, so be sure before you dial that a written communication won't do just as well.

MARKETPLACE

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:

RCMA MARKETPLACE, c/o Gary Darcy, P.O. Box 1329, Palmdale, CA 93550

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above for a supply of forms. Foreign members do not need to include postage on envelopes. ALL MEMBERS must include their membership numbers.

The Marketplace editor can be contacted by electronic mail via the following services:

COMPUSERVE..76566,1542	DELPHI.....GMDARCY	MCI MAIL.....286-1087
THE SOURCE.....BDW292	PEOPLE/LINK....GMDARCY	TELEX.....6502861087
EASYLINK.....62015327	GENIE.....GMDARCY	

EDITOR'S COMMENT: I still I have transfer requests pending with my employer, the U.S. Postal Service, to Salt Lake City, UT area. My wife started work there over seven months ago. I'm still waiting. Chances are I'll still be in California when you read this, so please continue to use the Palmdale, CA address. THANKS!!!

EDITOR'S COMMENT: Sorry for the absence of last month's column. I had a once in a lifetime shot at a free Alaskan vacation. I wasn't about to pass it up. Wasn't much to be printed here anyway.

FOR SALE: 5 ITEMS: [#1] ICOM R-70. $300.00. [#2] Regency MX-5000. $150.00. [#3] Sony ICF2010. $175.00. [#4] Regency M-100. $80.00. [#5] Kenwood R-2000 w/VHF adapter. $375.00.
Contact: CHRIS DEVENDORF N6HVL (CA-OR-050), 29261 Buckhaven St., Laguna Niguel, CA 92677-1618.

FOR SALE: Regency HX-1500. Includes drop-in charger, new nicads, and leather carrying case. $250.00 firm.
Contact: HANK ROSE KNJ2HR (NJ-206), 6 Florham Dr., Lawrenceville, NJ 08648 or telephone 609-587-5510 between 08:30 and 17:00 Mon-Fri.

WANTED: Realistic PRO-25 & Motorola HT 500, 220 VHF/44F. Both or separate; should be in good condition; willing to pay for quality.
Contact: KURT STOVDT (IL-342), 1001 E. Park #44, Carbondale, IL 62901 or telephone 618-457-7774.

WANTED: Realistic PRO-2004. Must have owner's manual. I will pay postage if shipped via UPS.
Contact: ROGER W. WEST (MN-052), P.O. Box 366, Wyoming, MN 55092.

MONITORING & THE LAW

Send information or questions to:
Roger W. West (MN-052), P.O. Box 52, Balsam Lake, WI 54810

Hello! Another month has gone by and the holidays are here. From my family to each and every member and families, HAPPY HOLIDAYS!

* *

SPECIAL NEWS RELEASE

* *

I received an important letter from Robert Horvitz who is the GOVERNMENT AFFAIRS LIAISON for ANARC and is also a member of RCMA. I will quote from part of his letter: "We are in the midst of an historic struggle to retain public access rights to the

radio spectrum and it is far from over. RCMA MUST play a KEY ROLE in that struggle or the organization itself will HAVE NO FUTURE."

By the way, at the Anarc convention a decision was reached that Bob Horvitz will have a section of the ANARC computer BBS to post notices concerning legislative and regulatory developments. Recently upgraded to 300/1200 Band, their [Modem] number is 217-368-3124, for 24 hours a day. As updates come in I will print them in this column.

Many letters have been received this month from the membership. I hope that my answers have helped those that wrote me.

I am starting to get answers to my monitoring questions.

Is monitoring in your state and/or bordering state(s):

A. Legal in your home?
B. Legal in a mobile unit? (Car, boat, aircraft, etc.)
C. Legal with a hand held?
D. Legal in your place of buisness or work?
E. Are there any local laws on monitoring?

MINNESOTA: A. YES B. NO C. NO D. YES E. UNKNOWN (from my files)

WISCONSIN: A. B. C. D. E. NO LAWS AT ALL. (John J. WI-84)

TENNESSEE: A. B. C. D. E. NO LAWS AT ALL. (Curtis H. TN-33)

NEW YORK: A. YES B. With PERMIT ONLY C. YES, if walking but not driving. D. YES E. NO (Daniel R., JR. NY-107 & Kevin B. NY-314)

CONNECTICUT: A: YES B. C. D. E. - UNKNOWN (Kevin B. NY-314)

MISSOURI: A. B. C. D. E. NO LAWS AT ALL. (Michael R. MO-?)

NEW YORK: SUFFOLK COUNTY: A. YES B. NO C. YES D. YES E. NO (Michael H. NY-397)

I would like to thank the following members who sent me frequencies for the state of Wisconsin, when I moved from Wyoming, Minnesota. David W. (WI-35), Scott M. (WI-39), John J. (WI-84) and Larry H. (WI-05). Thanks!

Gordon West the Editor of the Column "Amateur Radio Communications" sent me his "21-day Novice" course that was advertised on page 45 of the September newsletter. After I and my 18 year old son, Tim reviewed the course, we decided to try for our novice license. With the aid of a text book and several tape cassettes, he makes the course very easy to understand. I would recommend the course for anyone who is studying for their novice license. (Are we related? NO!) I almost forgot it is Index Time!

January through August:	No Editor
September:	Monitoring Questions. Review of RCMA Policy.
October:	Labeling of Scanners. Monitoring Law Questions.
November:	Experiences monitoring. Monitoring Law Questions.
December:	Monitoring Law Questions.

Well that will do it for another month. Enjoy the holiday season and I will close with this thought:

"Any man can be a FATHER - but it takes a SPECIAL MAN to be a DAD!

Good listening,

Roger W.

Editor's Note: I am still looking for answers to the monitoring law questions. I am not a lawyer, so please do not take my opinion as a legal statement.

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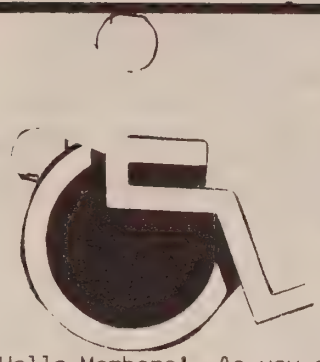


RCMA Handicapped Representative

Send questions or newspaper and magazine articles of interest that relate to the hobby of monitoring and will be of aid to our handicapped members.

Send to : Roger West, P.O. Box 52, Balsam Lake, WI 54810

Hello Members! As you can see, something new has been added to this column. I refer to it as a SUB-COLUMN. It is mainly for the handicapped, but all members are welcome to submit articles, newspaper clipping-frequencies and anything that has to do with the hobby of monitoring.

However, I will answer questions on Social Security, medicare, etc. If you send me a stamped self-addressed envelope I will try to answer your questions or refer you to the party that can.

I would also like to ask for yourinput as to what you would like to see in print in this column. Well that will do it for this month, Please write to let me know of any ideas that you might have.

From my family to yours: HAPPY HOLIDAY SEASON!

I close with this thought: I do not envy those who have never known any pain, physical or spiritual because I strongly suspect that the capacity for pain and the capacity for joy are equal. Only those who have suffered great pain are able to know equally great joy.

Good listening,

NEWS MEDIA COMMUNICATIONS

This column is for reporting frequency and radio systems information of news media. Send related reports and questions on newspaper, radio, television, magazine, film production companies, etc. to:

Allen G. Henney, MD-069, 6912 Prince Georges Ave, Takoma Park, MD 20912

I WOULD LIKE TO EXTEND MY APPRECIATION TO THOSE PEOPLE WHO SENT INFORMATION TO THIS COLUMN DURING THE LAST TWO YEARS. IT HAS REALLY BEEN ENJOYABLE DOING THIS COLUMN. AS YOU KNOW THIS IS THE DECEMBER ISSUE THAT HAS THE GENERAL INDEX FOR 1986 & 1987 WHICH APPEARS BELOW. HOPE IT IS USEFUL.

BY ISSUE

MAR 86	FIRST COLUMN, FCC REMOTE PICKUP UNIT FREQUENCY LIST
APR 86	MICHIGAN, KALAMAZOO
	FLORIDA, ST PETERSBURG - TAMPA
MAY 86	MICHIGAN, DETROIT
JUN 86	MASSACHUSETTS, BOSTON - RHODE ISLAND, PROVIDENCE
	NEW YORK, NEW YORK CITY - CONNECTICUT
JUL 86	CALIFORNIA, SOUTHERN MEDIA, SOUTHERN NEWSPAPERS
AUG 86	ILLINOIS, CHICAGO
SEP 86	GEORGIA, ATLANTA / TEXAS, FORT WORTH - DALLAS
	NEW YORK, BUFFALO, SYRACUSE - WATERTOWN
OCT 86	WASHINGTON, SEATTLE - TACOMA / GENERIC FREQUENCY LIST
	NEW YORK, NEW YORK CITY - CONNECTICUT (UPDATES)
	GEORGIA, AGUSTA
NOV 86	FLORIDA, CENTRAL & WEST COAST / CELLULAR IN TRAFFIC A/C
	CONNECTICUT (UPDATE)
DEC 86	1986 GENERAL INDEX / NEW YORK, NYC - CONNECTICUT
JAN 87	CALIFORNIA, SAN DIEGO & VARIOUS NORTHERN CALIF CITIES
FEB 87	NORTHERN CALIFORNIA COORDINATION LIST (PAGES 1,2,3)
MAR 87	MICHIGAN, ST. JOSEPH AREA / NEVADA, RENO / CATV
	NORTHERN CALIFORNIA COORDINATION LIST (PAGES 4,5,6)
APR 87	LOUISIANA, NEW ORLEANS AREA,
	NORTHERN CALIFORNIA COORDINATION LIST (PAGES 7,8,9)

MAY 87	CALIFORNIA, SAN FRANCISCO AREA UPDATES, NORTHERN CALIFORNIA COORDINATION LIST (PAGES 10,11)
JUN 87	FLORIDA, ORLANDO COORDINATION LIST / OKLAHOMA, TULSA IOWA, CEDAR RAPIDS - IOWA CITY / CONNECTICUT UPDATES CONNECTICUT - MASSACHUSETTS AREA / ACSB IN BATON ROUGE
JUL 87	CALIFORNIA, LOS ANGELES - SAN DIEGO COORDINATION LIST
AUG 87	ESPN / ARIZONA, TUCSON / KANSAS, MANHATTAN CALIF, STOCKTON / MASS, STONEHILL COLLEGE, NORTH EASTON WASHINGTON POST - TIMES NEW FREQUENCIES
SEP 87	CALIFORNIA, SOUTHERN PROFILE
OCT 87	NEW YORK, NEW YORK CITY AREA / WISCONSIN, Eau CLAIRE - MINNESOTA, ST PAUL - MINNEAPOLIS / IDAHO, BOISE CONNECTICUT TRAFFIC MEDIA, MASSACHUSETTS, BOSTON, MILWAUKEE JOURNAL-SENTINAL NEW RADIO / CATV ON 106.5
NOV 87	VIRGINIA, TIDEWATER AREA COORDINATION LIST INCLUDES: NORFOLK, NEWPORT NEWS, HAMPTON & OTHER NEAR-BY AREAS
DEC 87	1986-87 GENERAL INDEX / TEXAS, LUFKIN / CHICAGO UPDATES

BY STATE/TOPIC

ARIZONA (TUCSON) AUG 87
CALIFORNIA (SOUTHERN MEDIA & PAPERS) JUL 86, (SAN DIEGO) JAN 87, (SOUTHERN PROFILE) SEP 87, STOCKTON AUG 87, (LOS ANGELES - SAN DIEGO COORDINATION LIST) JUL 87, (VARIOUS NORTHERN CALIF CITIES) JAN 87, (SAN FRANCISCO AREA UPDATES) MAY 87, (NORTHERN CALIF COORD LIST) FEB & MAR & APR & MAY 87
CONNECTICUT (NYC AREA) JUN & DEC 86 (UPDATE) OCT & NOV 86, JUN 87, (TRAFFIC MEDIA) OCT 87
DISTRICT OF COLUMBIA (WASHINGTON POST - TIMES) AUG 87
FLORIDA (ST PETERSBURG - TAMPA) APR & NOV 86, (CENTRAL) NOV 86, (ORLANDO COORDINATION LIST) JUN 87
GEORGIA (AGUSTA) OCT 86, (ATLANTA) SEP 86
IDAHO (BOISE) OCT 87
ILLINOIS (CHICAGO) AUG 86, (CHICAGO UPDATES) DEC 87
IOWA (CEDAR RAPIDS - IOWA CITY) JUN 87
LOUISIANA (NEW ORLEANS AREA) APR 87
MASSACHUSETTS (BOSTON) JUN 86, OCT 87, (UPDATES) JUN 87, (STONEHILL COLLEGE - NORTH EASTON AREA) AUG 87
MICHIGAN (DETROIT) MAY 86, (KALAMAZOO) APR 86, (ST JOSEPH AREA) MAR 87
MINNESOTA (ST PAUL - MINNEAPOLIS) OCT 87
NEVADA (RENO AREA) MAR 87
NEW YORK (BUFFALO) SEP 86, (NYC) JUN & OCT & DEC 86, OCT 87, (SYRACUSE) SEP 86, (WATERTOWN) SEP 86
OKLAHOMA (TULSA) JUN 87
RHODE ISLAND (PROVIDENCE) JUN 86
TEXAS (FORT WORTH - DALLAS) SEP 86, (LUFKIN) DEC 87
VIRGINIA (TIDEWATER, NORFOLK, NN AREA COORDINATION LIST) NOV 87
WASHINGTON (SEATTLE - TACOMA) OCT 86
WISCONSIN (Eau CLAIRE) OCT 87, (MILWAUKEE JOURNAL/SENTI) OCT 87

ACSB IN USE BY A BATON ROUGE TELEVISION STATION JUN 87
CABLE TELEVISION MAR 87, 106.5 CATV DATA CARRIER OCT 87
CELLULAR IN TRAFFIC AIRCRAFT NOV 86
ENTERTAINMENT SPORTS PROGRAMMING NETWORK (ESPN) AUG 87
GENERIC MEDIA FREQUENCY LIST OCT 86
REMOTE PICKUP UNIT FREQUENCY LIST MAR 86

FIRST, JOHN LETNEY (TX-152) A POLICE OFFICER IN LUFKIN, TEXAS WROTE TO TELLS US WHAT MEDIA FREQUENCIES WERE IN USE DURING THE FOURTH OF JULY CELEBRATION AT THE ELLEN TROOT ZOO & THE ANGELINA COUNTY EXPOSITION CENTER IN LUFKIN, TEXAS. JOHN SENT A VERY NICE & COMPLETE PROFILE FOR THE PUBLIC SAFETY USERS WHICH I WILL FORWARD TO THE PSSC COLUMN. ONE INTERESTING NOTE JOHN MADE, THE LUFKIN JAYCEES PARKING & CONCESSIONS WERE USING 49.830.

LUFKIN, TEXAS

450.750 (455.750 INPUT) KYKS (FM105.1) B/C REMOTE (DEAD CARRIER)
450.800 (455.800 INPUT) KYKS (FM105.1) B/C REMOTE (IN USE)
464.175 (469.175 INPUT) KTRE (TV9) NEWS

NEXT, WE HAVE UPDATES FROM THE "WINDY CITY" SENT IN BY TWO GREAT CHICAGO AREA MEMBERS. THE FIRST LETTER COMES FROM MICHAEL YANUL (IL-Ø14) & THE SECOND COMES FROM KEVIN O'ROURKE (IL-274). HERE IS WHAT THEY SENT:

WFLD (TV32) FOX TV OWNED & OPERATED RECENTLY STARTED A NIGHTLY NEWS OPERATION (@ 7 & 11). THE STUDIO "CONTROL", NEWSDESK & ENG UNITS USE NO VHF OR UHF FREQUENCIES BUT RATHER, A 1Ø CHANNEL 8ØØ MHz TRUNKED SYSTEM. BEING A BUSINESS TRUNKED RADIO SYSTEM, IT IS OBVIOUSLY DIFFICULT TO MONITOR A PARTICULAR USER. ONE USEFUL NOTE, APPARENTLY THE LOWEST FREQUENCY OF THE 1Ø IS IN USE THE MOST BY THE SYSTEM. SINCE THERE ARE FEWER USERS IN THE EVENING, ONE MAY FIND IT EASIER JUST TO MONITOR THE 861.9625 FREQUENCY TO SEE WHAT YOU CAN HEAR OF THE WFLD NEWS OPERATION.

ONE CAN MONITOR WFLD (FOX TV) ON THE BELOW OUTPUT FREQUENCIES. LIKE MOST BUSINESS TRUNK SYSTEM THE INDIVIDUAL LICENSEES ARE LICENSED TO THE INPUT FREQUENCIES RATHER THAN TO THE OUTPUT FREQUENCIES. THE OUTPUTS ARE LISTED HERE FOR CONVENIENCE SAKE. HERE ARE THE FREQUENCIES WFLD (FOX TV) USE UNDER CALL SIGN KB22778.

861.9625, 862.Ø625, 862.8625, 862.9625, 863.7625
863.8625, 864.6625, 864.7625, 865.5625, 865.6625

WGN (TV9) "SUPER-STATION" ENG CREWS ARE UTILIZING A PAC/RT (REFERRED TO AS A "PACK-RAT") MOBILE EXTENDER SYSTEM IN THE FIELD TO EXTEND THEIR VHF FREQUENCY (166.25) WHEN CREWS ARE OUTSIDE OF THEIR VEHICLES. THE PAC/RT UNIT TAKES TRAFFIC RECEIVED BY THE VEHICLE RADIO ON (166.25) & RE-BROADCASTS IT ON 455.3875. THE PAC/RT PORTABLE OPERATES ON 455.3875 SIMPLEX, THUS ANY TRAFFIC RECEIVED BY THE VEHICLE RADIO (ON 166.25) IS PASSED ONTO THE PORTABLE (ON 455.3875) & VISA-VERSA.

WJMK (FM) (INFINITY B/C) USES 455.7 FOR REMOTE BROADCASTS FROM NIGHTCLUBS (USUALLY IN THE SUBURBS).

MANY THANKS GO TO BOTH MICHAEL & KEVIN FOR THESE GREAT UPDATES FOR THE CHICAGO AREA. KEVIN SENT WITH HIS LETTER SOME QUESTIONS WHICH MAYBE ANSWERED BY THE READERS OF THIS COLUMN. KEVIN WOULD LIKE TO KNOW OF ANY NETWORK FREQUENCIES FOR SPORTS OPERATIONS (ie SPORTSVISION OF CHICAGO etc).

KEVIN ALSO ASKS SEVERAL QUESTIONS WHICH, I AM SURE MANY OF US HAVE ASK AS WELL. KEVIN WOULD LIKE TO SOLICIT ADVICE FROM COLUMN READERS THAT ARE "MEDIA PROFESSIONALS" & ARE WORKING IN THE BROADCAST FIELD. KEVIN WOULD LIKE TO KNOW THE BEST WAY TO GO ABOUT GETTING INTO A BROADCAST NEWS OPERATION POSITION AS AN ENG CREW MEMBER OR ON AN ASSIGNMENT DESK MONITORING SCANNERS. HE HAS EXPERIENCE IN VIDEO PRODUCTION WITH 2 CATV COMPANIES & HAS BEEN "HEARING THE NEWS AS IT HAPPENS" OVER HIS SCANNERS FOR ALMOST 1Ø YEARS. HE WOULD LIKE TO FIND A POSITION NOT TOO FAR FROM CHICAGO AREA (MIDWEST) WITH A MODEST SALARY. KEVIN WOULD ALSO LIKE TO HEAR FROM ANY MEMBER THAT TRADES OR COLLECTS BROADCAST/CABLE "WEARABLE" ITEMS. PLEASE SEND ANY CORRESPONDENCE TO: KEVIN O'ROURKE (IL-274), 862 FAIRFIELD AVENUE, ELMHURST, IL 6Ø126.

SEASONS GREETINGS... Susan

PUBLIC SAFETY

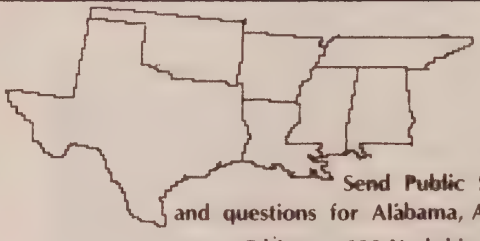
This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

Associated Public-Safety Communications Officers, Inc.

OFFICIAL TEN SIGNAL LIST

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

10-1	Signal weak	10-19	(In) contact
10-2	Signal good	10-20	Location
10-3	Stop transmitting	10-21	Call ( ) by phone
10-4	Affirmative (OK)	10-22	Disregard
10-5	Relay (to)	10-23	Arrived at scene
10-6	Busy	10-24	Assignment completed
10-7	Out of service	10-25	Report to (Meet)
10-8	In service	10-26	Estimated time of arrival
10-9	Say again	10-27	License/Permit Information
10-10	Negative	10-28	Ownership Information
10-11	( ) on duty	10-29	Records check
10-12	Stand by (stop)	10-30	Danger/Caution
10-13	Existing conditions	10-31	Pick up
10-14	Message/Information	10-32	( ) units needed (Specify)
10-15	Message delivered	10-33	Help me quick
10-16	Reply to message	10-34	Time
10-17	Enroute	10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward.	
10-18	Urgent		



PUBLIC SAFETY - SOUTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to

Ed Lentz, 609 Yorkshire, Pasadena, TX 77503-1450

GEnie - ELENTZ DELPHI - THISARSE COMPUSERVE - 72645,172

Hello again. Gee, another year has almost passed us by again. That means that it must be time to go out and buy the kids a new scanner for Christmas. By now both Regency and Uniden (Bearcat) should have their new models on the shelves and it's time to go look-see.

HAPPY HOLIDAYS

PUBLIC SAFETY - SOUTH CENTRAL
INDEX - 1986

ISSUE	SUBJECT.....	ST CITY/AREA.....
01/01/86	HURRICAN NET INFO	FL
01/01/86	REQUEST FOR HELP ON SAN ANTONIO	TX SAN ANTONIO
01/01/86	TEXAS MUNICIPAL POWER - UPDATE	TX TEXAS
02/01/86	MISSOURI CITY PF/FD NEW 800 MHZ	TX MISSOURI CITY
02/01/86	NOVEMBER '85 D/FW UPDATES	TX D/FW AREA
02/01/86	MONTGOMERY COUNTY NEW FREQUENCIES	TX MONTGOMERY COU.
02/01/86	AUSTIN PD CH 9	TX AUSTIN
02/01/86	TEXAS AIR NATIONAL GUARD	TX TRAVIS COUNTY
02/01/86	TEXAS RENAISSANCE FESTIVAL	TX MAGNOLIA TEXAS

03/01/86	SAN ANTONIO AREA FREQ. LISTING	TX SAN ANTONIO
03/01/86	AUSTIN FD/PD UPDATE	TX AUSTIN TEXAS
04/01/86	HOUSTON FD NEW FREQUENCIES	TX HOUSTON
04/01/86	MONTGOMERY COUNTY FREQUENCIES	TX MONTGOMERY COU.
04/01/86	DALLAS FT WORTH AREA UPDATE	TX DAL/FTW
05/01/86	FT WORTH / DALLAS FREQ UPDATES	TX TARRANT/DALLAS
05/01/86	WALLER COUNTY INFO.	TX WALLER COUNTY
05/01/86	SAN ANTONIO AREA UPDATES	TX SAN ANTONIO
05/01/86	FT WORTH PD DISTRICT MAP	TX FT WORTH
06/01/86	KEN AND RICHARD CLOSING REMARKS	
06/01/86	CITY OF SAN ANTONIO PROFILE	TX SAN ANTONIO
06/01/86	AUSTIN PD NEW DISTRICT	TX AUSTIN TEXAS
07/01/86	NEW EDITOR	
07/01/86	MC DONALDS FREQUENCY	TX ALL AREAS
07/01/86	HOUSTON POLICE DEPT	TX HOUSTON
07/01/86	COUNTY S.O.'S OF TEXAS	TX ALL AREAS
08/01/86	LOUISIANA FREQUENCY INFO	LA CAMERON PARISH
08/01/86	C.I.M.A. NEW FREQUENCIES	TX HOUSTON
08/01/86	POTTER COUNTY AREA	TX AMARILLO
08/01/86	DAL/FT WORTH UPDATE	TX TARRANT/DALLAS
09/01/86	<> NO COLUMN <>	
10/01/86	HOT SPRINGS ARKANSAS AREA	AR HOT SPRINGS
10/01/86	TENNESSEE VARIOUS AREAS	TN HAMILTON/CHATT.
10/01/86	TENNESSEE VARIOUS AREAS	TN N.EAST AREA
10/01/86	KILGORE/LONGVIEW FIRE DEPT'S	TX EAST TEXAS
10/01/86	SAN ANTONIO FIRE DEPT UPDAGE	TX SAN ANTONIO
10/01/86	TENNESSEE STATE 10 CODES	TX ALL AREAS
11/01/86	LOUISIANA AREA FREQUENCIES	LA ALL AREAS
12/01/86	<<< 1986 ANNUAL INDEX >>>	

01/01/87	HOT SPRINGS ARKANSAS AREA	AR HOT SPRINGS
01/01/87	LAKE CHARLES SHERIFF OFFICE	LA LAKE CHARLES
01/01/87	TULSA 1986 FLOOD FREQUENCIES	OK TULSA
01/01/87	FORT WORTH TEXAS UPDATE	TX FT WORTH
01/01/87	UNIVERSITY PARK TEXAS	TX UNIVERSITY PARK
01/01/87	BLANCO COUNTY	TX BLANCO
01/01/87	COMAL COUNTY	TX NEW BRAUNFELS
02/01/87	ARKANSAS STATE POLICE CODES	AR STATEWIDE
02/01/87	GILLESPIE COUNTY	TX FREDERICKSBURG
02/01/87	HAYES COUNTY	TX SAN MARCOS
02/01/87	KENDALL COUNTY	TX BOERNE
03/01/87	ALABAMA	AL STATEWIDE
03/01/87	KERR COUNTY	TX KERRVILLE
04/01/87	MOBILE PHONES FOR EMS SERVICES	AL ALABAMA
04/01/87	TENNESSEE HIGHWAY PATROL	TN KNOXVILLE
04/01/87	EASTERN TENNESSEE UPDATES	TN EASTERN TN
04/01/87	JOHNSON CITY POLICE 10 CODES	TN JOHNSON CITY
04/01/87	ARLINGTON TEXAS DISPATCH SYSTEM	TX ARLINGTON
04/01/87	LLANO COUNTY	TX LLANO
04/01/87	MASON COUNTY	TX MASON
05/01/87	ALABAMA	AL
05/01/87	ALABAMA	AL
05/01/87	LOUISIANA	LA SHREVEPORT
05/01/87	TEXAS DPS NEW RADIO SYSTEM	TX STATEWIDE
06/01/87	SOUTHERN MISSISSIPPE	MS SOUTHERN
06/01/87	SOUTHEAST OKLAHOMA	OK SOUTHEAST
06/01/87	NORTHEAST TEXAS	TX NORTHEAST
06/01/87	DALLAS/FT WORTH CODE AND SIGNALS	TX DALLAS/FT WORTH
07/01/87	NORTHWEST ARKANSAS	AR NORTHWEST
07/01/87	SOUTH CENTRAL OKLAHOMA	OK SOUTH CENTRAL
07/01/87	HOUSTON MEDICAL HELICOPTERS	TX HOUSTON
07/01/87	WHARTON TEXAS	TX WHARTON
07/01/87	GARLAND SIGNAL LIST	TX GARLAND
08/01/87	BIRMINGHAM ALABAMA	AL BIRMINGHAM
08/01/87	HOT SPRINGS ARKANSAS	AR HOT SPRINGS
08/01/87	SOUTHEAST/SOUTHCENTRAL ARKANSAS	AR S.EAST/S.CENTRA
08/01/87	NORTH EAST/NORTH CENTRAL LOUISIANA	LA N.EAST/N.CENTRA
08/01/87	OKLAHOMA E.M.S.A.	OK OKLAHOMA CITY
08/01/87	NORTH EAST TENNESSEE	TN JOHNSON CITY AR
08/01/87	TENNESSEE HIGHWAY PATROL UPDATE	TN STATEWIDE
08/01/87	TENNESSEE EMERGENCY MANAGEMENT	TN STATEWIDE
08/01/87	CARTER COUNTY WORK CAMP	TN CARTER COUNTY

PUBLIC SAFETY - SOUTH CENTRAL
INDEX - 1987

ISSUE	SUBJECT.....	ST	CITY/AREA.....
08/01/87	KNOXVILLE TENNESSEE AREA	TN	KNOX COUNTY ARE
08/01/87	KILLEEN TEXAS AREA	TX	KILLEEN
09/01/87	HELPFUL FREQUENCY MANUALS		
10/01/87	OKLAHOMA CITY FREQUENCY LISTING	OK	OKLAHOMA CITY
11/01/87	CROSSETT ARKANSAS POLICE SIGNALS	AR	CROSSETT
11/01/87	CENTRAL ARKANSAS	AR	CENTRAL
11/01/87	SOUTH EAST ARKANSAS	AR	SOUTH EAST
11/01/87	NORTHEAST LOUISIANA	LA	NORTHEAST
11/01/87	SOUTHERN MISSISSIPPE	MS	SOUTH
11/01/87	ARLINGTON POLICE DEPARTMENT	TX	ARLINGTON
12/01/87	<<< ANNUAL INDEX >>>		

		KEN AND RICHARD CLOSING REMARKS	06/01/86
		NEW EDITOR	07/01/86
		<> NO COLUMN <>	09/01/86
		<<< 1986 ANNUAL INDEX >>>	12/01/86
		<<< 1987 ANNUAL INDEX >>>	12/01/87
		HELPFUL FREQUENCY MANUALS	09/01/87
AL		ALABAMA	05/01/87
AL		ALABAMA	05/01/87
AL	ALABAMA	MOBILE PHONES FOR EMS SERVICES	04/01/87
AL	BIRMINGHAM	BIRMINGHAM ALABAMA	08/01/87
AL	STATEWIDE	ALABAMA	03/01/87
AR	CENTRAL	CENTRAL ARKANSAS	11/01/87
AR	CROSSETT	CROSSETT ARKANSAS POLICE SIGNALS	11/01/87
AR	HOT SPRINGS	HOT SPRINGS ARKANSAS AREA	10/01/86
AR	HOT SPRINGS	HOT SPRINGS ARKANSAS AREA	01/01/87
AR	HOT SPRINGS	HOT SPRINGS ARKANSAS	08/01/87
AR	NORTHWEST	NORTHWEST ARKANSAS	07/01/87
AR	S.EAST/S.CENTRA	SOUTHEAST/SOUTHCENTRAL ARKANSAS	08/01/87
AR	SOUTH EAST	SOUTH EAST ARKANSAS	11/01/87
AR	STATEWIDE	ARKANSAS STATE POLICE CODES	02/01/87
FL		HURRICAN NET INFO	01/01/86
LA	ALL AREAS	LOUISIANA AREA FREQUENCIES	11/01/86
LA	CAMERON PARISH	LOUISIANA FREQUENCY INFO	08/01/86
LA	LAKE CHARLES	LAKE CHARLES SHERIFF OFFICE	01/01/87
LA	N.EAST/N.CENTRA	NORTH EAST/NORTH CENTRAL LOUISIANA	08/01/87
LA	NORTHEAST	NORTHEAST LOUISIANA	11/01/87
LA	SHREVEPORT	LOUISIANA	05/01/87
MS	SOUTH	SOUTHERN MISSISSIPPE	11/01/87
MS	SOUTHERN	SOUTHERN MISSISSIPPE	06/01/87
OK	OKLAHOMA CITY	OKLAHOMA E.M.S.A.	08/01/87
OK	OKLAHOMA CITY	OKLAHOMA CITY FREQUENCY LISTING	10/01/87
OK	SOUTH CENTRAL	SOUTH CENTRAL OKLAHOMA	07/01/87
OK	SOUTHEAST	SOUTHEAST OKLAHOMA	06/01/87
OK	TULSA	TULSA 1986 FLOOD FREQUENCIES	01/01/87
TN	CARTER COUNTY	CARTER COUNTY WORK CAMP	08/01/87
TN	EASTERN TN	EASTERN TENNESSEE UPDATES	04/01/87
TN	HAMILTON/CHATT.	TENNESSEE VARIOUS AREAS	10/01/86
TN	JOHNSON CITY	JOHNSON CITY POLICE 10 CODES	04/01/87
TN	JOHNSON CITY AR	NORTH EAST TENNESSEE	08/01/87
TN	KNOX COUNTY ARE	KNOXVILLE TENNESSEE AREA	08/01/87
TN	KNOXVILLE	TENNESSEE HIGHWAY PATROL	04/01/87
TN	N.EAST AREA	TENNESSEE VARIOUS AREAS	10/01/86
TN	STATEWIDE	TENNESSEE HIGHWAY PATROL UPDATE	08/01/87
TN	STATEWIDE	TENNESSEE EMERGENCY MANAGEMENT	08/01/87
TX	ALL AREAS	COUNTY S.O.'S OF TEXAS	07/01/86
TX	ALL AREAS	MC DONALDS FREQUENCY	07/01/86
TX	ALL AREAS	TENNESSEE STATE 10 CODES	10/01/86
TX	AMARILLO	POTTER COUNTY AREA	08/01/86
TX	ARLINGTON	ARLINGTON TEXAS DISPATCH SYSTEM	04/01/87
TX	ARLINGTON	ARLINGTON POLICE DEPARTMENT	11/01/87
TX	AUSTIN	AUSTIN PD CH 9	02/01/86
TX	AUSTIN TEXAS	AUSTIN FD/PD UPDATE	03/01/86
TX	AUSTIN TEXAS	AUSTIN PD NEW DISTRICT	06/01/86
TX	BLANCO	BLANCO COUNTY	01/01/87
TX	BOERNE	KENDALL COUNTY	02/01/87
TX	D/FW AREA	NOVEMBER '85 D/FW UPDATES	02/01/86

TX DAL/FTW	DALLAS FT WORTH AREA UPDATE	04/01/86
TX DALLAS/FT WORTH	DALLAS/FT WORTH CODE AND SIGNALS	06/01/87
TX EAST TEXAS	KILGORE/LONGVIEW FIRE DEPT'S	10/01/86
TX FREDERICKSBURG	GILLESPIE COUNTY	02/01/87
TX FT WORTH	FT WORTH PD DISTRICT MAP	05/01/86
TX FT WORTH	FORT WORTH TEXAS UPDATE	01/01/87
TX GARLAND	GARLAND SIGNAL LIST	07/01/87
TX HOUSTON	HOUSTON FD NEW FREQUENCIES	04/01/86
TX HOUSTON	HOUSTON POLICE DEPT FREQUENCIES	07/01/86
TX HOUSTON	C.I.M.A. NEW FREQUENCIES	08/01/86
TX HOUSTON	HOUSTON MEDICAL HELICOPTERS	07/01/87
TX KERRVILLE	KERR COUNTY	03/01/87
TX KILLEEN	KILLEEN TEXAS AREA	08/01/87
TX LLANO	LLANO COUNTY	04/01/87
TX MAGNOLIA TEXAS	TEXAS RENAISSANCE FESTIVAL	02/01/86
TX MASON	MASON COUNTY	04/01/87
TX MISSOURI CITY	MISSOURI CITY PF/FD NEW 800 MHZ	02/01/86
TX MONTGOMERY COU.	MONTGOMERY COUNTY NEW FREQUENCIES	02/01/86
TX MONTGOMERY COU.	MONTGOMERY COUNTY FREQUENCIES	04/01/86
TX NEW BRAUNFELS	COMAL COUNTY	01/01/87
TX NORTHEAST	NORTHEAST TEXAS	06/01/87
TX SAN ANTONIO	REQUEST FOR HELP ON SAN ANTONIO	01/01/86
TX SAN ANTONIO	SAN ANTONIO AREA FREQ. LISTING	03/01/86
TX SAN ANTONIO	SAN ANTONIO AREA UPDATES	05/01/86
TX SAN ANTONIO	CITY OF SAN ANTONIO PROFILE	06/01/86
TX SAN ANTONIO	SAN ANTONIO FIRE DEPT UPDAGE	10/01/86
TX SAN MARCOS	HAYES COUNTY	02/01/87
TX STATEWIDE	TEXAS DPS NEW RADIO SYSTEM	05/01/87
TX TARRANT/DALLAS	FT WORTH / DALLAS FREQ UPDATES	05/01/86
TX TARRANT/DALLAS	DAL/FT WORTH UPDATE	08/01/86
TX TEXAS	TEXAS MUNICIPAL POWER - UPDATE	01/01/86
TX TRAVIS COUNTY	TEXAS AIR NATIONAL GUARD	02/01/86
TX UNIVERSITY PARK	UNIVERSITY PARK TEXAS	01/01/87
TX WALLER COUNTY	WALLER COUNTY INFO.	05/01/86
TX WHARTON	WHARTON TEXAS	07/01/87

PUBLIC SAFETY NORTH CENTRAL

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows—Iowa, Kansas, Minnesota, Missouri, Nebraska, North and South Dakota:

Michael W. Scheel, 25265 35th Ave, Walcott IA 52773

Welcome to the annual index issue for Public Safety - North Central. A few bits of information about the 911 system in Scott County (IA). I mention a few months ago that due to the budget crunch in Davenport. The police might not be getting some equipment including three mobile terminals. My information was partly correct. Sometime this fall (this is being written in late Sept.) the PD will be installing mobile terminals in their squad cars, the three I saw mention in the city budget were additional units.

The 911 system has been running now for three weeks and everyone seems to like it.

Medic Ambulance has a new supervisor's vehicle. a Jeep conversion with a ambulance box on back. I will try to a photograph for the newsletter's cover. Radio callsign in Medic 1 (462.950 R) the old supervisor vehicle was a van Medic 7. It was replaced with a new Ford Modular unit as are all the other units. Medic 2 through 7.

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IOWA Dept. of Transportation

F1	159.180	156.060 R	Maint.
F2	159.195	156.105 R	Maint.

a radio that was displayed at Iowa state fair showed positions for F3 and F4 these are believe to be simplex but not sure was frequencies.

There is a license for 159.165 R 156.075m at Ames and Des Moines. No other information available.

blue 155.970 155.970 BM Enforcement Officers & Scales

Enforcement Officers also used Dept. of Public Safety radio system and a prefix of T to their badge numbers.

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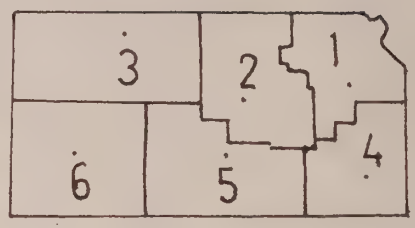
KANSAS Dept. of Transportation

47.060 Districts 2,4,6
47.120 Districts 2,4,6 mobile
47.180 Districts 1,3,5
47.200 Districts 1,3,5 mobile



KANSAS Turnpike Authority

151.085 R Maint.
151.100 R Maint. (159.120 m input)

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MINNESOTA Dept. of Transportation

F1	151.070	156.045	R
F2	151.115	156.075	R
F3	151.025	156.135	R
F4	151.055	156.060	R
F5		151.070	m
F6		151.115	m
F7		151.025	m
F8		151.055	m

Each district may operate on more than one channel for coverage.

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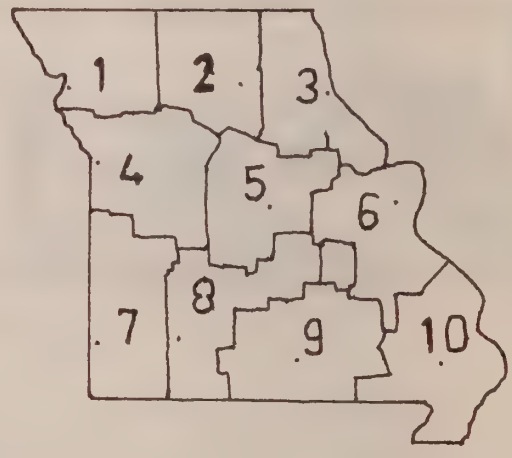
MISSOURI State Highway & Transportation Department

151.040 156.135 R District 2,6,8
151.070 156.015 R District 3,4,9
151.130 156.045 R District 1,5,7,10



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NEBRASKA Dept. of Roads

47.080
47.160
47.200
47.240

any information about this Dept. would be appreciated.

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NORTH DAKOTA Dept. of Highways

F1	151.040 156.060	Devils Lake and Williston Districts
F2	151.055 156.105	Bismark and Grand Forks Districts
F3	151.085 156.120	Minot and Valley City Districts
F4	151.100 156.135	Dickinson and Fargo Districts

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SOUTH DAKOTA Highway Department

154.025 R
154.100 R
154.115 R

more information would be appreciated.

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1986 INDEX

JAN..... No Column

FEB..... State DOT profile
Iowa City & Coralville area

MAR..... Ames IA area
Sullivan MO area
State EMS profile
Lawrence KS area

APR..... North Central Universities
Omaha NB area

MAY..... NOAA Weather radio
State conservation profile
Sioux Falls SD area

JUN..... Cedar Rapids IA area
State Police Profile

JUL..... Waterloo & Cedar Falls IA area
Marion IA area
State CD profile
Topeka KS area

AUG..... No Column
SEP..... No Column
OCT..... No Column
NOV..... No Column
DEC..... No Column

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1987 INDEX

JAN..... New Editor
CEDAR County IA Area

FEB..... Scott County IA misc. info
Clinton County IA Sheriff
Cedar Rapids IA FD misc.
Linn County IA Civil Defense
Kansas Turnpike
Houston County MN

MAR..... Davenport IA Budget
Clinton IA misc.
Fargo ND area

APR..... Bettendorf IA Fire
MN State Govt. :
MN Highway Patrol
Bulter County KS part 1

MAY..... Lousia County IA Sheriff
Bulter County KS part 2
MN State Govt.: MN DOT
'AMERIKA' Tecunsch NB

JUN..... Cedar Rapids IA area
Muscatine County IA
Bulter COunty KS part 3
MN misc.
Kirksville MO area
St. Louis Vieled Prophet Fair

JUL..... IOWA municipal Transit
IOWA Regional Transit
Bulter County KS part 4
St. Paul MN area
SD misc.

AUG..... Scott County IA 911
Bulter KS part 5
Minneapolis MN area
Sullivan MO area

SEP..... Davenport IA PD
Scott County IA Parks
Cedar County IA Pipeline Fire
Listener's Profile:
Des Moines IA
Dickinson County IA area
Listener's Profile:
Wyoming MN & area

MN State Govt.:
MN DNR Parks
Omaha NB Police

OCT..... Davenport IA Public Library
QC Times Bix 7 roadrace
Scott County IA 911 update
MN HP 160.335 solved
Ramsey County MN area

NOV..... Great Mississippi Valley Fair
Hennepin County MN area

DEC..... Davenport IA Police mobile
terminals correction.
Scott County 911 update
Medic Ambulance
States' DOT profile
1986 index
1987 index

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Until next month. -30-

PUBLIC SAFETY—GREAT LAKES

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows—Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

David Wilcox, 1711 Excalibur Drive, Janesville, WI 53545

Welcome to the December column of PS/GL. This month I will be printing the yearly index. This index will cover the past two years for your reference.

January 86		
Detroit devils night	45	Anonymous
Grand Rapids MI	46	Robert (MI-133)
Henery Illinois	45	John (IL-217)
Illinois Tollway	44	Denny (IL-026)
Jasper IN	45	Dave (IN-002)
Kane County IL	46	Scott (WI-039)
Madison WI	45	Kevin (WI-079)
Madison Heights MI	46	Robert (MI-108)
Schaumberg IL	45	Gerald (IL-?)
February 86		
Chicago Fire Dept	46	Mike (IL-014)
Detroit Devils night	47	(MI-108)
Fond Du Lac PD WI	48	Scott (WI-039)Carl (WI-054)
Marion County IL	48	Henry (IL-204)
Milwaukee WI	49	ED (IL-046)
Naperville IL	49	J.D. (IL-293)
Sanford MI	49	Susan Marie (MI-134)
Walworth County WI	46	Scott (WI-039)Carl (WI-054)
Wauwatosa WI	49	Ernst (WI-024)
Wisc County Highway Updates	46	Scott (WI-039)Carl (WI-054)
March 86		
DUCOMM Dupage County	52	Editors Files
Illinois State police	50	Editors Files
Kane County IL	53	John (IL-012)
Ohio State Partol	51	Editors Files
Peoria County IL	53	(IL-272)
April 86		
Indiana State PD Update	49	Editors Files
Indianapolis IN	50	Editors Files
Marion county IN	50	Editors Files
Peoria County IL	51	(IL-272)
MAY 86		
Clark & Floyd Counties	55	Jeff (KY-023)
Illinois state Police	53	Martin (IL-125)
Jefferson County OH	56	Bob (OH-157)
M T S Indiana	55	Jeff (KY-023)
Wisconsin Updates	56	Larry (WI-028)
June 86		
Clare County Sheriff MI	54	Susan Marie (MI-028)
Columbus Fire	53	Dave (OH-127)
Dekalb County Sheriff IL	52	John (IL-012)
Indianapolis Fire Dept	51	Richard (MD-068)
Marion County Fire	50	Richard (MD-068)
Ohio DNR	53	Editors Files
Oswego Fire Dept	52	John (IL-012)
July 86 No Column		
August 86		
Chicago Fire Dept	42	Mike (IL-014)
Chicago Police Dept	43	Ron (IL-310)
Chicago Fire Dept	40	Dave Marshall
Illinois Emergency Svc	44	Editors Files
Michigan Misc.	41	Anonymous

September 86		
Berrien County MI	57	Jim (CA/SF-030)
Chicago Police Dept	56	Ron (IL-310)
Detroit	55	Robert (MI-108)
Reader Participation Pro.	58	David (WI-035)
October 86		
Bloomington Il	52	Steve (IA-056)
Normal IL	52	Steve (IA-056)
Northern Michigan	53	Robert (MI-018)
Lake County Fire	54	Editors files
Lake County Sheriff	54	Editors files
Lake County Local PD's	54	Editors files
Cook County Sheriff	55	Editors files
Cook County Local PD's	55	Editors files
November 86		
Chicago Police Dept	47	Ron (IL-310)
Illinois Highway	48	John (IL-012)
Indiana Highway	51	Dave (IN-002)
Kentucky Highway	51	Editors Files
Michigan Highway	50	Editors Files
Ohio Highway	50	Editors Files
Wisconsin Highway	49	(WI-001)
December 86		
Index For 1986		
January 87		
S. W. Central Dispatch	44	Jeff (IL-64)
Bloomington/Normal Areas	45	John (IL-012)
Kendall Co. Ill	45	John (Il-012)
Jefferson County Ohio	45	BOB (OH-157)
Belmont County Ohio	46	BOB (OH-157)
Wisconsin State Fair	46	Jeff (IL-64)
Walworth County WI.	46	Dave (WI-035)
February 87		
State of Wisc. (Police)	56	Dave (WI-035) Randy (WI-059) Scott (WI-039)
March 87		
Greenfield Wisc.	59	Randy (WI-059)
Eau Claire WIsc.	59	John (WI-084)
Wisc. Co. Highway Freqs.	59	Scott (WI-039) Carl(WI-054)
State of Wisc. (Police)	60	Dave (WI-035) Randy (WI-059) Scott (WI-039)
April 87		
Herscher Ill. Area	58	Vic (IL-015)
Severe Weather Monitoring	58	Jeff (IL-064)
South Cook County Update	59	Jeff (IL-064)
Eau Claire County Wi.	59	John (WI-084) Randy (WI-059)
May 87		
Illinois State Of	65	Dave (WI-035)
Pepin County Wisc.	67	Randy (WI-59) John (WI-084)
Buffalo County Wisc.	67	Randy (WI-59) John (WI-084)
Dunn County Wisc.	67	Randy (WI-59) John (WI-084)
Chippewa County Wisc.	68	Randy (WI-59) John (WI-084)
June 87		
Detroit Metro Area	58	Darrell (MI-176)
Wisconsin Misc.	59	Carl (WI-045)
Wisconsin State Fair	59	Carl (WI-045)
University of Wis. System	59	Carl (WI-045)
State of Wisc. (Health)	61	Dave (WI-035) Randy(WI-059)

July 87		
Desplaines Valley Fire	47	Jeff (IL-064)
Jackson County Wisc	47	Randy (WI-59) John (WI-084)
St Croix County Wisc.	48	Randy (WI-59) John (WI-084)
Trempealeau Co. Wisc.	49	Randy (WI-59) John (WI-084)
Pierce County Wisc.	49	Randy (WI-59) John (WI-084)
August 87		
Carbondale area ILL.	62	Kurt (IL-342)
Carbondale Police Assign.	63	Kurt (IL-342)
Illinois State Updates	64	Kevin (IL-274)
Illinois State Updates	64	John (IL-012)
September 87		
Illinois State Police	68	John (IL-012)
Toledo Ohio (Profile)	69	???
Detroit Metro (Profile)	69	(MI-176)
North Chicago (Profile)	70	Bob (IL-269)
October 87		
Cook County IL(Profile)	56	????
Lake County IN(Profile)	56	????
S. W. Chicago (Profile)	56	Sawyer (CASN-004)
Dodge Co. WI. (Profile)	57	Carl (WI-054)
West Central WI.(Profile)	57	John (WI-084)
November 87		
Michigan Plane crash	??	Russ (MI-002)
Peoria ILL. Co.(Profile)	??	John (IL-010)
Tazewell Co. Il.(Profile)	??	John (IL-010)
Woodford Co. Il.(Profile)	??	John (IL-0101)
Northern Illinois	??	Dave (IL-354)
Illinois Dept. of Law 10 Codes		Dave (IL-354)
December 87		
Index for 1987		

Illinois					
Bloomington	10/86	01/87			
Carbondale Area	08/87				
Chicago Fire	02/86	08/86			
Chicago police	08/86	09/86	11/86		
Cook county	10/86	04/87	10/87		
Dekalb County	06/86	03/86			
Desplaines Valley Fire	07/87				
Henery Il	01/86				
Herscher Ill. Area	04/87				
Illinois Tollway	01/86				
Illinois State Of	03/86	05/86	05/87	09/87	
Illinois Updates	08/87				
Illinois Emergency Svc	08/86				
Illinois Highway	11/86				
Kane County	01/86	03/86			
Kendall Co.	01/87				
Lake County	10/86				
Marion Count	02/86				
Naperville	02/86				
Normal	10/86	01/87			
North Chicago	09/87				
Northern Illinois	11/87				
Oswego Fire Dept	06/86				
Peoria County	03/86	04/86	11/87		
Schaumberg	01/86				
Severe Weather Monitoring	04/87				
S. W. Central Dispatch	01/87				
S. W. Chicago area	10/87				
Tazewell County	11/87				
Woodford County	11/87				
Indiana					
Clark & Floyd Counties	05/86				
Indiana Highway	11/86				

Indiana State Police	04/86			
Indianapolis	04/86	06/86		
Jasper	01/86			
Lake County	10/87			
M T S	05/86			
Marion County	04/86	06/86		
Kentucky				
Kentucky Highway	11/86			
Michigan				
Berrien county	09/86			
Clare County	06/86			
Detroit	09/86	01/86	06/87	09/87
Grand Rapids	01/86			
Madison Heights	01/86			
Michigan Highway	11/86			
Michigan Misc.	08/86	10/86		
Michigan Plane Crash	11/87			
Sanford	02/86			
Toledo	09/87			
Ohio				
Belmont County	01/87			
Cleveland Fire	08/86			
Columbus Fire	06/86			
Jefferson County	05/86	01/87		
Ohio DNR	06/86			
Ohio Highway	11/86			
Ohio State Partol	03/86			
Wisconsin				
Buffalo County	05/87			
Chippewa County	05/87			
Dodge County	10/87			
Dunn County	05/87			
Eau Claire County	03/87	04/87		
Fond Du Lac PD	02/86			
Greenfield City Wisc.	03/87			
Jackson County	07/87			
Madison WI	01/86			
Milwaukee WI	02/86			
Pepin County	05/87			
Pierce County	07/87			
St Croix County	07/87			
Trempealeau County	07/87			
University Of WI System	06/87			
Walworth County	02/86	01/87		
Wauwatosa	02/86			
West central Wisc.	10/87			
Wisc County Highways	02/86	11/86	03/87	
Wisconsin Misc.	05/86	06/87		
Wisconsin State Fair	01/87	06/87		
Wisconsin State Health	06/87			
Wisconsin State Police	03/87	02/87		

Till next month
Dave

RCMA has a Telephone Number

The new RCMA telephone number is (714)545-9551. It's 'manned' by an answering machine, and while it's been established for RCMA members, its use is limited. You may leave a message concerning delivery or renewal problems; you cannot use it to request club information or order back issues. Appropriate response will be made by letter or postcard, not by telephone. Any call regarding a membership problem MUST be accompanied by your membership number.

Please remember that it is a toll call, so be sure before you dial that a written communication won't do just as well.

PUBLIC SAFETY—NORTH EAST

Send Public Safety amd Special Emergency frequencies, radio system details, and questions as follows—New England States, New York, Pennsylvania, New Jersey, Maryland, Deleware, and District of Columbia:

Gary Saffer, 6 Roach Road, Stoughton, MA 02072

WELCOME TO THE DECEMBER EDITION OF PSNE. BASED ON A LETTER THAT APPEARED IN AN EARLIER EDITION I AM TRYING A READER'S SUGESTION THAT THE NEWSLETTER BE TYPED IN CAPITALS OUT TO SEE IF IT WORKS. IT ACTUALLY MAKES SENSE AND IS REALLY NO HARDER THAN DOING IT THE TRADITIONAL WAY. COMMENTS WILL BE APPRECIATED.

WE HAVE ALOT OF STUFF FROM ALL OVER AND OF COURSE THE 86 AND 87 INDEXES WILL APPEAR AT THE END OF THE COLUMN. FIRST, I WAS IN NYC OVER THE WEEKEND OF THE 19th and 20th OF SEPT. I DIDN'T HAVE A LOT OF TIME TO LISTEN BUT I DID BRING THE SCANNER ALONG JUST IN CASE. MOSTLY I HAD NYC EMS ON, INTERESTING LISTENING, SIMILAR CALLS TO WHAT WE HAVE IN BOSTON BUT A LOT BUSIER. I REALLY DID NOT LISTEN TO MUCH POLICE OR FIRE SINCE THE EMS RADIO WAS SO BUSY. I HAD AN 84 ISSUE OF THE NEWSLETTER THAT HAD INFORMATION ON UNIT ASSIGNMENTS BUT NO CODE LISTINGS. FREQUENCY ASSIGNMNETS I DUG UP OUT OF THE 86 POLICE CALL BOOK, AS CURIOUSLY THE 87 EDITION DOES NOT SHOW THE 477-478 LISTINGS. FOR THE BENEFIT OF THOSE WHO DON'T HAVE A POLICE CALL I WILL LIST THEM BELOW. IF ANYONE OUT THERE HAS AN UPDATED UNIT ASSIGNMENT AND CODE LIST AS WELL AS ANY OTHER INFO ON NYC EMS I WOULD REALLY LIKE TO DO A PIECE ON THE SYSTEM. TWO THINGS I DID NOTICE THAT ARE INTERESTING. FIRST ALTHOUGH THE RADIOS ARE EQUIPPED WITH MOTOROLA MODAT STATUS TRANSMITTERS ALL OF THE DIGITALLY TRANSMITTED INFO IS CONFIRMED BY VOICE (14 BOY DID YOU RECIEVE OUR MODAT?). SECONDLY IT SEEMS THAT AT LEAST SOME OF THE ALS UNITS HAVE CELLULAR PHONES. IF ANYONE CAN CONFIRM AND/OR EXPLAIN THAT I WOULD LIKE TO HEAR FROM YOU. THE EMS CHANNELS ARE AS FOLLOWS.

CITYWIDE	478.0125	STATEN ISLAND BROOKLYNN	477.8625	QUEENS	477.9125
BRONX	478.2125	NORTH BROOKLYN	478.8625	MANHATTAN	477.8375

OUR FIRST READER CONTRIBUTION IS FROM PETER (MA-154) WHO SENDS US A VERY WELL CONSTRUCTED PIECE ON THE BOSTON FIRE DEPARTMENT. PETER SENDS SOME INFORMATION THAT MAKES LISTENING MORE ENJOYABLE AND EXPLAINS SOME OF THE THINGS YOU HEAR ON THE RADIO. THIS WAS SENT TO ME BY JOE LEWIS OUR READER PROFILE EDITOR WHO RECIEVED IT FROM PETER. THANK YOU JOE AND PETER.

BOSTON FIRE DEPARTMENT RADIO

CHANNEL 1	483.1625	OPERATIONS (SIMULCAST AND CROSS PATCHED WITH 33.74)
CHANNEL 2	483.1875	PRIMARY FIREGROUND CHANNEL
CHANNEL 3	483.2125	SECONDARY FIREGROUND CHANNEL
CHANNEL 4	483.2375	FIRE ALARM MAINTENANCE/ THIRD FIREGROUND/ CHIEFS AT HIGHRISE INCIDENTS
CHANNEL 5	453.650	USED TO PAGE ALERT (TONE OUT) STATIONS

ALL CHANNELS ARE REPEATED EXCEPT CHANNEL 5 WHICH IS ONE WAY PAGING ONLY. CHANNELS ARE FULL DUPLEX ON THE BASE STATION SIDE AND CAN BE SIMULCAST AND CROSS PATCHED BY THE FIRE ALARM OPERATORS. MOBILES USUSALLY OPERATE ON CHANNEL ONE WHILE PORTABLES OPERATE ON CHANNEL TWO. AT WORKING FIRES APPARATUS SWITHCES TO CAHNNEL TWO. IN THE CASE OF MULTIPLE FIRES CHANNELS THREE AND FOUR ARE ALSO USED.

THE COPLEY PLACE SHOPPING PLAZA AND THE WESTIN HOTEL COMPLEX HAVE CHANNEL TWO REATERS AND INTERNAL ANTENNA SYSTEMS INSTALLED. THE TWO TUNNELS BETWEEN DOWNTOWN AND EAST BOSTON HAVE ANTENNA SYSTEMS CONNECTED TO CHANNEL ONE INSTALLED. FORMERLY ALL MBTA SUBWAY STATIONS WERE EQUIPPED WITH OLD CHANNEL TWO (153.890) BASE STATIONS AND EACH COMPANY HAD A PORTABLE TO USE WITH THIS SYSTEM, IT SEEMS THAT THIS HAS BEEN REPLACED BY A NEW CHANNEL THREE SYSTEM. MOBILES AND PORTABLES ARE EQUIPPED WITH REPEATER TALK AROUND. THE COMMUNICATIONS VAN HAS A CHANNEL TWO REPEATER BUILT IN TO IT, AND A 486 MHZ BASE IS INSTALLED AT THE FIRE ALARM OFFICE TO ACCESS IT AND THE REPEATERS AT THE COPLEY AND WESTIN.

CALL SIGNS AND OTHER INFORMATION

C1 COMMISIONER C2 ACTING CHIEF C6 DIVISION ONE CHIEF C7 DIVISION TWO CHIEF CAR 1 THROUGH 12 ARE THE DISTRICT CHIEFS. HUNDRED FOLLOWING A CALL-SIGN DENOTES AN AIDE TO A CHIEF (EXAMPLE: CAR 600 IS CAR 6's AIDE, C 100 IS THE AID TO THE COMMISONER) AIDES DRIVE THE OFFICER TO THE SCENE AND ACT AS HIS EYES AND EARS INSIDE THE FIRE BUILDING.
ENGINE FOLLOWED BY THE UNIT NUMBER (EXAMPLE ENGINE 39) DENOTES THE DRIVER OR OFFICER. ENGINE 39 PORTABLE WOULD BE THE OFFICER. ENGINE 39 PUMP WOULD BE THE PUMP OPERATOR(DRIVER). SIMILARLY LADDER FOLLOWED BY THE UNIT NUMBER WOULD DENOTE THE OFFICER OR DRIVER OF THE UNIT. (EXAMPLE LADDER 18). LADDER 18 PORTABLE IS THE OFFICER AND LADDER 18 ROOF MAN WOULD BE THE SECOND PORTABLE ON THE PIECE.

RESPONSE LEVELS

ONE DISTRICT CHIEF	BOMB THREAT
ONE ENGINE	OUTSIDE FIRE/MEDICAL AID/LINE BOX
ONE LADDER	MEDICAL AID OR LOCKOUT
ONE ENGINE AND ONE LADDER	ALARM SYATEM ACTIVATION/ STREET BOX OR MOTOR VEHICLE ACCIDENT
TWO ENGINES AND ONE LADDER	FIRE IN UNATTCHED BUILDING
TWO ENGINES TWO LADDERS	INCIDENT ON DIVIDED HIGHWAY (ONE EACH FROM EACH DIRECTION)

THREE ENGINES, TWO LADDERS AND ONE RESCUE FIRE IN ATTACHED BUILDING OR SERIOUS HAZARD OCCUPANCY
A RESCUE COMPANY MAY ALSO BE SENT TO THE FOLLOWING: MOTOR VEHICLE ACCIDENT WITH ENTRAPMENT, INDUSTRIAL ACCIDENT OR HAZMAT INCIDENT.

NOTE: BOXES ARE TAPPED OUT ON CHANNEL ONE

FROM DAVID (VA-094) A LIST OF OCEAN CITY MD FREQUENCIES AND POLICE CODES:

OCEAN CITY POLICE	39.48	OCEAN CITY SANITITATION	154.04
OCEAN CITY PD BOARDWALK	460.150	OCEAN CITY BEACH PATROL	155.22
OCEAN CITY POLICE	460.325		155.37
OCEAN CITY VFD	46.38	OC TRANSPORTATION	452.650
OC VFD WORKING FIRE	46.36	OCEAN CITY PUBLIC WORKS	158.995
OC VFD AMBULANCE	46.32		
AMBULANCE CALL 2	462.975		
MEDIC 1	463.000		
MEDIC 2	463.025		

DISPOSITION CODES

ADAM (FALSE ALARM CODES)	UNFOUNDED COMPLAINT	BOY	UNABLE TO LOCATE COMPLAINANT
		CHARLIE	NO SUCH ADDRESS
ADAM-1	ACCIDENTAL	DAVID	NO POLICE SERVICE NEEDED
ADAM-2	EQUIPMENT FAILURE	EDWARD	GONE ON ARRIVAL
ADAM-3	OTHER CAUSES	FRANK	COMPLAINT ABATED
ADAM-4	UNKNOWN CAUSE	X-RAY	REPORT WRITTEN

OCEAN CITY POLICE 10-CODE

CODES MOT LISTED ARE APCO STANDARDS. ALL CODES PROCEEDED BY 10-

0	CAUTION	48	TRAF. STANDARS REP.	74	NEGATIVE
10	FIGHT IN PROGRESS	49	TRAFFIC LIGHT OUT	75	CONTACT
11	DOG CASE	50	ACCIDENT	76	EN ROUTE
14	PROWLER	51	WRECKER NEEDED	77	ETA
15	CIVIL DISTURBANCE	52	AMBULANCE NEEDED	78	NEED ASSISTANCE
16	DOMESTIC	53	ROAD BLOCKED AT	79	NOTIFY CORONER
17	MEET COMPLAINANT	54	LIVESTOCK ON ROAD	80	CHASE IN PROGRESS
19	RETURN TO	55	DRUNK DRIVER	81	BREATHALIZER
26	DETAINING SUBJECT	56	DRUNK PERSON	82	RESERVE LODGING
30	UNNECESSARY RADIO USE	57	HIT AND RUN	83	SCHOOL CROSSING
33	MAN WITH GUN	58	DIRECT TRAFFIC	84	IF MEETING ... GIVE ETA
32	RIOT	59	ESCORT	85	DELAYED DUE TO ...
34	MAJOR CRIME ALERT	60	SQUAD IN AREA	86	OFFICER ON DUTY
36	CORRECT TIME	61	PERSONNEL IN AREA	87	PICKUP CHECKS
37	INVESTIGATE	62	REPLY	88	GIVE PHONE #

38 STOPPING VEH. OR PERS.
39 URGENT LIGHTS AND SIREN
40 SILENT RUN
41 ON DUTY
42 OFF DUTY
43 INFORMATION
44 OKAY TO LEAVE ...
45 ANIMAL CARCASS AT...
46 ASSIST MOTORIST
47 EMERGENCY ROAD REPAIR
100 PERSONAL OR ASSIGNMENT

63 PREPARE TO COPY
64 DELIVER MESSAGE
65 MESSAGE ASSIGN.
66 CANCELLATION
67 CLEAR CHANNEL
68 DISPATCH INFO
69 MESSAGE RECIEVED
70 FIRE AT
71 NATURE OF FIRE ?
72 PROGRESS OF FIRE?
73 SMOKE REPORT

89 BOMB THREAT
90 BANK ALARM
91 PICK UP PERSON
92 PARKING VIOLATION
93 BLOCKADE
94 DRAG RACING
95 PERSON IN CUSTODY
96 MENTAL SUBJECT
97 TEST SIGNAL
98 JAIL BREAK
99 WANTED/STOLEN

KENNEBEC COUNTY MAINE FREQUENCIES

SHERIFF	155.07	LITCHFIELD FD	154.250	WATERVILLE PD	155.310
ALBION FD	155.925	LITCHFIELD PD	155.025	WATERVILLE HWY	154.10
AUGUSTA FD	154.400	MANCHESTER FD	154.145	WAYNE FD	154.145
BELGRADE FD	155.085	MONMOUTH PD&FD	154.055	W GARDENER FD	154.22
CHELSEA FD	155.835	MT VERNON FD	154.145	WINDSOR FD	154.385
CHINA FD	154.220	OAKLAND FD	155.085	WINSLOW FD	153.80
CHINA FD	154.385	OAKLAND PD	155.310	WINSLOW PD	155.31
CLINTON PD	155.250	PITTSTON FD	154.250	WINTHROP FD	154.995
CLINTON FD	154.130	RANDOLPH FD	154.250	WINTHROP PD	154.860
FARMINGDALE FD	154.250	READFIELD FD	154.145	STATE POLICE	154.650
GARDINER PD	159.210	ROME FD	155.085	HOSPITALS	155.40
GARDINER FD	154.250	SIDNEY FD	155.085	POL. CAR TO CAR	154.695
HALLOWELL FD	153.980	VASSALBORO FD	154.220	FIRE MUTUAL AID	154.310
HALLOWELL PD	155.07	VIENNA FD	154.145	DELTA AMBULANCE	155.22
AUGUSTA PD	155.190	WATERVILLE FD	154.205	COUNTY AMBULANCE	155,235

TOGUS VETERANS HAOSPITAL FIRE 163.00 AUGUSTA CIVIC CENTER 155.100

THE ABOVE LISTING WAS SENT IN BY LIN (VT-02) WHO SENT US LAST MONTH'S VERMONT LISTINGS. THANK YOU LIN.

THIS MONTH'S FINAL CONTRIBUTIION IS FROM KEVIN (NY-314) WHO HAS SENT US A WIDE VARIETY OF UPSTATE NEW YORK FREQUENCIES.

DUTCHESS COUNTY

FIRE
DISPATCH F-2 46.36 453.900/950 RPT
FIREGROUND F-1 46.28 453.800 RPT
MUTUAL AID F-3 45.88
ARLINGTON FIREGROUND F-4 46.32 453.05
FIRE POLICE F-5 46.30 5 WATTS ONLY

SHERIFF
DISPATCH F-1 39.04 RPT
CAR TO BASE F-5 39.30
Towns TOWNS AND VILLAGES F-2 39.14
CAR TO CAR F-3 39.04 SIM
DETECTIVES F-4 39.30 SIM

EMS

AMBULANCE TO CONTROL	155.745
CONTROL TO HOSPITAL	155.280
AMBULANCE/HOSPITAL	155.340
AMBULANCE/HOSPITAL	155.400

HIGHWAY DEPARTMENT
156.135 RPT
HEALTH DEPARTMENT
154.115 RPT
BUS SYSTEM
154.115 RPT

ULSTER COUNTY

FIRE

DISPATCH	33.48
FIRE CONTROL	46.46
TRUCK TO TRUCK	46.34
FIRE POLICE	46.30
FUTURE	46.48
MUTUAL AID	45.88

SHERIFF
DISPATCH F-1 155.670
MRD F-2 155.370

HIGHWAY DEPT
156.180

EMS

AMBULANCE TO CONTROL	155.175
CONTROL TO HOSPITAL	155.280
AMBULANCE/HOSPITAL	155.340
AMBULANCE/HOSPITAL	155.400

HEALTH DEPT
154.995

MINI BUS SYSTEM
453.100

COLUMBIA COUNTY

FIRE
DISPATCH F-1 46.50
FIREGROUND F-2 46.42
FIRE POLICE F-346.30
MUTUAL AID F-4 45.88

GREENE COUNTY

FIRE
DISPATCH F-1 46.14
FIREGROUND F-2 46.26
FIRE POLICE F-3 46.30
MUTUAL AID F-4 45.88

SHERIFF
DISPATCH F-1 155.430 RPT
CAR TO CAR F-2 155.910
MRD F-3 155.370
CAR TO CAR F-4 154.025

SHERIFF
DISPATCH F-1 155.430
MRD F-2 155.370

HIGHWAY DEPT.
159.165 RPT

UPSTATE NEW YORK POLICE FREQUENCIES

BEACON
F-1 155.490 RPT
F-2 156.210 RPT
F-3 155.370 SIM

EAST FISHKILL POLICE
F-1 156.210
F-2 154.830

FISHKILL
39.24
156.210
154.830

KINGSTON
F-1 158.790 BASE 154.770 MOBILE
F-2 158.730 BASE 154.830 MOBILE

LLOYD
F-1 154.890
158.865
158.940

MARLBORO
158.760 BASE 153.920 MOBILE

NEW BURGH
F-1 154.875
F-3 155.370
F-4 155.880

NEW PALTZ
DISPATCH 153.800
F-1 155.805
PLATTEKILL
45.52

POUGHKEEPSIE CITY
F-1 155.130 RPT
F-2 158.970 SIM
F-3 155.415 RPT
F-4 158.910 SIM
F-5 155.370 MRD

POUGHKEEPSIE TOWN
DISPATCH 45.54
CAR TO CAR 45.82
CHANNEL B 45.66
RADAR 45.62

ROOD HOOK
45.70
SAUGERTIES
155.715

ULSTER
154.815

WAPPEINGERS FALLS
158.850
156.210
154.830
WOODSTOCK
154.755

HYDE PARK
158.805

1987 PSNE INDEX

JANUARY
Book reviews SCANNER MASTER POCKET GUIDE AND OFFICIAL NEW HAMPSHIRE SCANNER GUIDE
MBTA POLICE RADIO SYSTEM
MAINE STATE POLICE FREQUENCIES AND CODES
FALL RIVER MASSACHUSETTS PATROL ASSIGNMENTS
FEBRUARY
FINISH OF 1986 INDEX
MAMARONECK AND LARCHMONT POLICE RADIO SYSTEMS
WESTCHESTER COUNTY AMBULANCE RADIO SYSTEM
BUFFALO AND ROCHESTER NY AREA FREQUENCIES
NIAGRA FALLSA NY POLICE CODES
MARCH
BERKS COUNTY PA FIRE NET
NY CITY AND LONG ISLAND POLICE FREQUENCIES
CONNECTICUT FIRE AND AMBULANCE MUTUAL AID
CAMDEN COUNTY NJ POLICE AND FIRE FREQUENCIS
GLOUCHESTER COUNTY NJ POLICE AND FIRE FREQUENCIES
APRIL
MAINE STATE POLICE UPDATE AND CORRECTIONS
MAINE FORESTRY SERVICE
MAINE REGIONAL POLICE NETS

MAY
READING PA FIRE DEPT.
BERKS COUNTY PA FIRE UPDATE
MAINE POLICE AND FIRE FREQUENCIES
NEW YORK STATE POLICE FREQUENCIES
BUFFALO NEW YORK LOCAL GOVERNMENT FREQUENCIES
ERIE COUNTY LOCAL GOVERNMENT FREQUENCIES
CONN 800 mhz FREQUENCIES
CONN CIVIL DEFENSE CODES

JUNE
SYRACUSE NEW YOK POLICE
ONONDAGA COUNTY NY SHERIFF
OSWEGO COUNTY FIRE CODES
NEW YORK STATE POLICE CODES
CLINTON COUNTY NY FIRE CODES
ST LAWRENCE COUNTY NY FREQUENCIES
CONN DEPT OF TRANSPORTATION FREQUENCIES AND CODES

JULY
NEW YORK CITY POLICE UPDATES
BOSTON POLICE SERVICE CODES
SOUTH EASTERN MASS. AND RI PUBLIC SAFETY FREQUENCIES
BERKS COUNTY PA POLICE FREQUENCIES
DELAWARE AND PENNSYLVANIA STATE POLICE CODES
NEW YORK CITY TRANSIT POLICE
MISCELANEOUS NEW YORK CITY FREQU#ENCIES

AUGUST
NEW YORK STATE POLICE UPDATES/ CORRECTIONS
WESTCHESTER COUNTY PUBLIC SAFETY

SEPTEMBER
HARTFORD HOSPITAL LIFESTAR
MISCELANEOUS NEW YORK INFO
CITY OF BUFFALO/ERIE COUNTY EMS RADIO
ERIE COUNTY SHERIFF'S DEPT.
HOWARD COUNTY MARYLAND FIRE DEPT.
VARIOUS NORTHEAST ENVIRONMENTAL CONSERVATION AND HIGHWAY FREQS.

OCTOBER
CONNECTICUT STATE POLICE CODES
DELAWARE MARYLAND AND PENNSYLVANIA MISCELANEOUS FREQUENCIES
PENNSYLVANIA STATE POLICE CORRECTIONS
QUINCY MASS POLICE CALLSIGNS

NOVEMBER
BOSTON AREA POLICE EMERGENCY RADIO SYSTEM (BAPERN)
VERMONT SATE AND LOCAL POLICE LISTINGS

DECEMBER
1986 AND 1987 INDEXES
NEW YORK CITY EMS FREQUENCIES
BOSTON FIRE DEPARTMENT
OCEAN CITY MARYLAND FREQUENCIES AND POLICE CODES
KENNEBEC COUNTY MAINE FREQUENCIES
UPSTATE NEW YORK PUBLIC SAFETY FREQUENCIES

1986 PSNE INDEX

JANUARY FEBRUARY JUNE AUGUST OCTOBER NOVEMBER NO COLUMN

MARCH NEWARK NJ FIRE DEPT
PATTERSON NJ FIRE DEPT
BALTIMORE MARYLAND POLICE
UNIV. OF CONN HEALTH CENTER

APRIL SPRINGFIELD NJ POLICE
BALTIMORE COUNTY POLICE
PRINCE GEORGES COUNTY FIRE AND EMS
MILFORD CONN FIRE RADIO CODES
WATERBURY CONN EMS
PENNSYLVANIA UPDATE

MAY RUMORS
NEW YORK STATE POLICE
MARYLAND STATE POLICE
MISCELANEOUS NEW YORK STATE FREQUENCIES
NEW YORK CITY FIRE UPDATE

JULY TRENTON NJ PUBLIC SAFETY
SEPT. NEW JERSEY STATE POLICE

DEC. NEW EDITOR INTRODUCTION
MISCELANEOUS FREQUENCIES
BOSTON EMS UPDATE
1985 AND 1986 INDEX

THAT IS ALL FOR THIS MONTH. OH, BY THE WAY IT'S BEEN A WHOLE YEAR SINCE THERE HAS BEEN A NO COLUMN THIS MONTH UNDER NORHT EAST'S HEADING, NOT BAD HUH? SEE YOU NEXT MONTH.

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr, Aurora, CO 80011

1987 INDEX

ALASKA
No input this year

ARIZONA

Department of Public Safety	Aug, Nov
State Interagency	Aug
Department of Transportation	Nov
Game and Fish	Nov
North Arizona EMS	Nov
Arizona State University	Aug
Apache County	Nov
Avondale	Aug
Buckeye	Aug
Chandler	Aug
Coconio County	Nov
Doney Park	Nov
Flagstaff	Nov
Fredonia	Nov
Gilbert	Aug
Glendale	Aug
Holbrook	Nov
Hopi Indian Reservation	Nov
Kachina Village	Nov
Maricopa County	Aug, Nov
Mesa	Aug
Mohave County	Nov
Navajo Tribe	Nov
Navajo County	Nov
Page	Nov
Paradise Valley	Aug
Peoria	Aug
Phoenix	Aug
Pima County	Jun

Pima-Salt River Indian Reservation	Aug
Pinewood	Nov
Prescott	Nov
Rural/Metro Fire Department	Aug
Scottsdale	Aug
Sedonia	Nov
Surprise/Youngtown	Aug
Tempe	Aug
Williams	Nov
Winslow	Nov
Yavapui County	Nov
COLORADO	
State	Oct
Misc.	Nov
Arapahoe County	Oct
Aurora	Jan, Feb, Oct, Nov
Denver	Jan, Oct, Nov
Glenwood Canyon	Sep
St. Anthony Comm Center	Mar
South Metro Fire District	Jun, Nov
Stapleton Airport	Jan
Summit County	Jan
HAWAII	
State of	Mar
Division of Parks	Mar
American Ambulance	Mar
HPD	Mar
Red Cross	Mar
IDAHO	
State Police	Jul
Department of Transportation	Jul
Emergency Medical Services	Jul
Game and Fish	Jul
Misc State	Jul
Ada County	Jul
Boise	Jul
Caldwell	Jul
Canyon County	Jul
Elmore County	Jul
Malheur County	Jul
Nampa	Jul
Owhee County	Jul
MONTANA	
State of	Jan
Bozeman	Jan
Gallatin County	Jan
NEVADA	
Department of Transportation	Oct
Forestry	Jan
Clark County	Feb, Jun
Las Vegas	Feb
Mercy Ambulance	Feb
Reno	Jan
Sparks	Jan
Trukee Meadows	Jan
Washo County	Jan
NEW MEXICO	
State Police	Jan
Intercity	Jan
Interagency Fire	Mar
Albquerque	Mar, Jun
Artesia	Jan
Carlsbad	Jan
Eddy County	Jan
Maljamar	Jan
Roswell	Jan

OREGON

State Police	Mar
Police Net	Mar
Channel Orange	Mar
Coos County	Mar
Douglas County	Mar
Josephone Co	Mar

UTAH

Corrections to August	Oct
Big fire	Nov
Civil Defense	Oct
Department of Transportation	Apr
Highway Patrol	Apr, Aug, Oct
State Narcotics	Oct
State Prison	Apr, Aug, Oct
Utah Technical College	Apr
University of Utah	Aug
Utah Transit	Aug
Alta Sheriff	Aug
American Fork	Aug
Bountiful	Aug
Brigham Young University	Apr
Davis County	Aug, Nov
Draper	Aug
Kaysville	Apr
Midvale	Aug
Murray	Aug
North Salt Lake City	Aug
Ogden	Apr, Aug
Orem	Apr
Park City	Oct
Provo	Apr
Provo/Orem CD	Apr
Salt Lake City	Aug
Salt Lake City Airport	Oct
Salt Lake City Lifeflight	Mar
Salt Lake County	Aug
Sandy	Aug
South Jordan	Aug
South Salt Lake City	Aug
Springville	Aug
Summit County	Oct
Utah Valley Hospital	Apr
West Jordan	Aug
West Valley	Aug

WASHINGTON

Everett	Jun
Lynnwood-Edmonds-Mountlake Terrace-Brier (Sno-Com)	Jun
Marysville	Jun
Seattle	Jan
Skagit County	Sep
Snohomish County	Jun
Snohomish	Jun

WYOMING

no input this year

JANUARY

How to find frequencies 56
Colorado 57
- Denver
- Stapleton Airport
- Aurora
- Summit County

Montana 58
- Bozeman
- State of
- Gallatin County

New Mexico 59
Carlsbad
Eddy County
State Police
Roswell
Intercity
Maljamar
Artesia
Nevada 59
Reno
Sparks
Washo County
Trukee Meadows
Forestry
Washington 59
Seattle

FEBRUARY
Colorado 61
Aurora
Nevada 61
Las Vegas
Mercy Ambulance
Clark County

MARCH
Colorado 63
St. Anthony Comm Center
Hawaii 63
State of
American Ambulance
Red Cross
HPD
Division of Parks
New Mexico 65
Interagency Fire
Albuquerque
Oregon 66
State Police
Coos County
Douglas County
Josephine County
Channel Orange
Police Net
Utah 66
Salt Lake City Lifeflight

APRIL
Utah 69
Provo
Brigham Young University
Utah Valley Hospital
Provo/Orem Civil Defense
Orem
Utah Technical College
Highway Patrol
State Prison
Ogden
Weber County
Kaysville
Department of Transportation

MAY
no column this month

JUNE
Arizona 74
Pima County
Colorado 74
South Mutual Aid District
New Mexico 75
Albuquerque

Nevada 75
Clark County
Washington 76
Everett
Snohomish County
Lynnwood-Edmonds-Mountlake Terrace-Brier (Sno-Com)
Marysville
Snohomish

JULY
Idaho 56
State Police
Department of Transportation
Game and Fish
EMS
other State Agencies
Ada County
Boise
Canyon County
Caldwell
Nampa
Malheur County
Elmore County
Owhee County

AUGUST
Arizona 67
Phoenix
Mesa
Avondale
Chandler
Rural/Metro Fire Department
Maricopa County
Tempe
Scottsdale
Peoria
Buckeye
Gilbert
Glendale
Surprise/Youngtown
Paradise Valley
Arizona State University
Pima-Salt River Indian Reservation
State Interagency
Department of Public Safety
Utah 69
Salt Lake County
South Jordan
Midvale
Murray
Bountiful
Ogden
West Jordan
Salt Lake City
Sandy
North Salt Lake
South Salt Lake
West Valley
American Fork
Highway Patrol
University of Utah
Alta Sheriff
Provo
Orem
Prison
Davis County
Draper
Springville
Utah Transit

SEPTEMBER
Colorado 70
Glenwood Canyon
Washington 71
Skagit County

OCTOBER
Colorado 58
Aurora
Denver
Arapahoe County
State
Nevada 59
Department of Transportation
Utah 60
Corrections to August
Salt Lake Airport
Civil Defense
State Narcotics
State Prison
Lifeflight
Summit County
Park City
Highway Patrol

NOVEMBER (page numbers not available)
Arizona
Flagstaff
Holbrook
Williams
Winslow
Page
Prescott
Fredonia
Hopi Indian Tribe
Navajo Indian Tribe
Doney Park
Kachina Village
Sedonia
Pinewood
Coconio County
Navajo County
Yavapai County
Mohave County
Apache County
Maricopa County
Highway Patrol
North Arizona EMS
Department of Transportation
Game and Fish
Colorado
Denver
Aurora
South Metro Mutual Aid District
Misc.
Utah
Davis County
Big Fire

PUBLIC SAFETY—CALIFORNIA

Editor: Dan Figueroa, CA-LA-359,
P.O. Box 7181, Capistrano Beach, CA 92624

Welcome to the last edition of PS-CA for 1987. The magic number is ZERO in that we've completed one full year of columns. We could not have done it without your support and input. At this time, the PS-CA Staff wish to salute all those of you who have contributed to this column. (And in case anyone is wondering, there 858 more issues left until the Newsletter reaches its 1000th issue. Any volunteers willing to keep count?) Let's keep it great in '88.

Before we get to the PS-CA Index, we have some announcements to make: (1) We have changed our mailing address (see above header). Effective immediately, send your input, inquries, etc. to the Capo Beach PO Box. We are temporarily keeping the Santa Fe Springs PO Box open as well; & (2) A minor staff change has been made: FIG [CALA-359] will handle the primary editor duties (i.e. column preparation, input gathering, etc.) and MIKE [ID-001] will be primarily handling his duties as the Chief Financial Officer for the RCMA. Those wishing to write to Mike, can continue to use the PS-CA Box (make him feel wanted!!!)

With those out of the way, let's put the frequency on stand-by for routine traffic. By popular request of the membership, we switch to the "Index Channel" for PS-CA 1987:

JAN: Downey PD using 155.895 in repeater mode; ORCO gray freq; LACoFD freq listings; West Covina PD & FD freqs; San Bernardino area Mall and security company freqs; ORCO FD freq 507.1125 and Lifeflight dispatch 155.400; California Rescue Dog Association (CARDA) info and freqs; Fullerton & Buena Park FD's on "Net 4" (46.320 Mhz); Unit numbering systems for Fresno PD & Fresno SO; and the 97 CHP Station listings & freqs.

FEB: Articles on SBSO's acquiring 5 replacement helicopters, Police agencies receiving monies from drug investigations, and LA County communications complex proposal on Catalina Island; California Land Management freqs; More info on ORCO FD freq 507.1125; Inquiry requests of LA County Fairgrounds, Cerritos & Lakewood Malls, and LASO SWAT teams (and some answers); Freq listings for San Joaquin SO & Med Services, Ripon city, Stockton PD & FD, Escalon PD, Lodi PD, Manteca PD, Tracy PD, and info on the Riverside Area Fire Buffs Association (RAFB).

MAR: General info on the Orange County Communications Division, and ORCO Paramedic ID's.

APR: Articles on Millbrae wheelchair speed enforcement, Irwindale PD communications tower, CHP Inland Division HQ, and Sonoma SO change to UHF; Inquiry request for Stonewood Shopping Center, National Audubon Society, and business freqs for Gustine area; Freq listings for Sacto Co FD, other Northern CA fire agencies, San Diego SO & PD listings, miscellaneous Monterey Co agencies, miscellaneous Oceanside city and surrounding area agencies, San Diego Co freqs for flooding incidents, and SD area CDF freqs.

MAY: Public Service Announcements for POLICE CALL requests, and SCANNING ENTERTAINMENT INDUSTRY guide; Articles on So Cal Edison's

Emergency Alert Program, FAA investigation on Air-Med services, LASO program for BBS, and SB County agencies use of cellular phones; Answer to Audubon Society request (461.750 Mhz); SF Paramedic freq 462.950 Mhz; Freq listings for Pope John Paul II's visit to San Francisco area in Sep 87; and Freq listings for San Gabriel Valley Fire Authority.

JUN: Somona CO FD radio ID's; Article on Voice Alerting Radio Detection Alarm (VARDA); LAFD 800 Mhz list; Miscellaneous Lake Co, Napa Co, and CDF freq listings; Fresno SO freqs; Unit numberings systems & freqs for Inyo SO, Inyo Co Medical Services, Mono SO, Mammoth Lakes PD, Bishop PD & FD; and Answer to LA Co Fairgrounds freq request (154.570 Mhz & 464.675 Mhz).

JUL: Articles on a scanner use to stop a burglary, and LASO laptop computer use; Info on the Spectrum Analysis Center Communications BBS; Miscellaneous Fresno Co freqs; Miscellaneous Stockton area freqs; Sacramento area freqs; Unit numbering systems for Big Pine FD, Lone Pine VFD, Olancha-Cartago FD, Mammoth Lakes FPD, and Independence FD; Correction to March 1987 Orange County Communications article; San Diego are CDF freqs; Sacto PD freqs and partial 900 code system; Revised Guadalupe PD channel (460.225 Mhz); and Miscellaneous freqs for Santa Maria, Oxnard, Ventura, Thousand Oaks, Camarillo, and US Navy (Port Hueneme) areas.

AUG: Inquiry Channel questions re: Freq requests for Lake Elsinore local govt, Elsinore Valley Water District, Rancho CA Water District, Lake Elsinore area So Cal Edison freqs, Riverside SO Lake Elsinore mobile freq, the meaning of "CVA" as used by LAFD, and effectiveness of a hand held freq counter to determine mobile freqs; Additional info and changes to Sacramento PD, and additional codes & unit systems; The CDF 80 channel radio plan for Toulumne/Calaveras RU; and Extensive San Diego profile, including city, county, municipal, unitily, and news media freq info.

SEP: Articles on SBSO's helicopter fleet, CDF/Riverside summer hiring efforts, SB County's Emergency Communications Center opening, CHP radar use in LA area, and ORCO freeway call boxes; Air-Med service in San Joaquin Co; Bay area bridges tow ID's; Stockton and San Joaquin area freq lists; San Francisco PD radio ID's; Oakland area profile lists; and LASO Walnut Station ID's.

OCT: Articles on CHP vehicle specs, CDF's Emergency Command Center, Riverside FD's equipment additions, Riverside CDF's Engine 48, and "Smog Watch" by the AQMD using portable radio transmitters; Inquiry requests to ID LASO 37 Mhz freqs from the FOX SCANNER GUIDE, and 800 Mhz freqs; Answer to LAFD's use of term "CVA"; SFPD's reassignment of UHF freqs (follow up to Sep column); CDF's 4 region nets, Ranger unit freqs, and former radio codes; Sacto PD's elimination of radio codes; and Listener Profiles from Big Bear and Riverside County areas.

NOV: An article on the embarassment of a reporter listening to CHP radio transmissions; Freq listings from Santa Barbara County, & radio ID's for Santa Barbara & San Luis Obispo Counties; La Mesa PD info & unit ID's; Miscellaneous freq listings from Santa Rosa & Sonoma County; Murrieta Fire District on 151.385 Mhz; and Listener Profiles from Central CA and San Diego area.

DEC: 1987 & 1986 Index. Info on ORCO SO joining the CAL-ID fingerprint system, Update on LASO Walnut Station, and 1951 San Diego PD 11 Codes.

And of course, thanks the following for their input during the year:

CAAL-029	CAAL-042	CAKE-014	CALA-045	CALA-133	CALA-385
CALA-443	CALA-534	CALA-650	CALA-674	CAMP-001	CAMR-001
CAOR-012	CAOR-026	CAOR-204	CAOR-230	CARI-011	CARI-013
CARI-063	CASC-018	CASC-043	CASC-049	CASC-058	CASD-001
CASD-058	CASD-069	CASD-078	CASF-025	CASJ-010	CASJ-015
CASL-008	CASZ-004	CATO-001	CAVE-010	CAVE-011	CT-032
FL-137	GA-006	KS-041	NY-317	PA-233	

And now for the 1986 Index:

JAN: Pasadena Tournament of Roses Parade freqs; Additional CDF San Bernardino info from MAR 1985 column; Request for Med-Star freq; Info on El Cajon CHP "K" units, & Regional Water Quality Control Boards; Yellow Cab of LA on 859.2635; Reassignments of So Bay Regional Commo; Santa Clara County freqs; Millbrae PD freqs; New Marin County freqs; Alameda FD freqs & info; San Luis Obispo County area freqs; LAFD freqs and equipment assignments (and map); Southland Ambulance on 800 Mhz; Unique codes of different agencies; and Sheriff's freqs for LA, ORCO, Riverside, San Bernardino, & San Diego Counties.

FEB: KIIS AM/FM traffic info & freq (450.950 Mhz); Request for So Cal RTD future subway info & freqs; San Bernardino PD freqs & radio ID info; Big Bear area freqs; CHP Temecula office opening info; San Jose Public Works freq (453.300 Mhz) and ID's; Crescenta Valley Co Water Dist (48.280 Mhz) and ID's; Radio ID's for Big Bear City FPD, Big Bear Lake FD, & Yucaipa SO; LifeFlight dispatch (462.975 Mhz); ORCO White freq info; & (CA) Air Attack Forces map.

MAR: 1985 Index; LAFD freq (959.900 Mhz) use & info; Additional LAFD and Kern County info; Changes for San Bernardino CDF; South San Francisco freqs; Additional CDF info to JAN 86; & article on some of the recommendations for San Diego PD's operations.

APR: So Cal RTD subway freq answers (FEB 86); Goodhew Ambulance freq request (Riverside area); CHP Temecula #115 on 42.120 Mhz; CA Dept of Justice profile & chart; and CDF questions on recent changes.

MAY: LA Marathon info & freqs; Unit ID's for Mono SO, Mammoth Lakes PD, Sierra Ambulance (Bishop), Mono County paramedics, Inyo SO, Lone Pine FPD & Inyo County Fire; Santa Clara Light Rail system freqs & info; Riverside CDF notes; and articles on San Bernardino city OK of Emergency Dispatch System, Prison inmates joining CDF firefighting & The "stolen" Ventura County callbox.

JUN: More Riverside CDF info; San Jose PD freqs & beat map; Answers to CDF questions (APR 86); San Bernardino CDF update & why ORCO fire numbering systems are missing a few numbers; Request for CHP use of numerical codes for locations; and info on California State Police & the Golden Gate Bridge.

JUL: Articles on loss of telephone service at West End Fire Dispatch, Riverside County Grand Jury request for more freqs, Merger of Covina & West Covina FD's, & West Covina PD now on CAL-ID system; Correction of Suburban Water Company's "Radio Watch" freq (48.260 Mhz); LACOFD UHF freq changes; West Covina FD on 156.165 Mhz; CHP Bridgeport unit ID changes; LASO 10 & 900 codes; & CALTRANS 800 Mhz radio (chart) channel selection guide.

AUG: CHP Golden Gate Division helicopter data; CHP 10 & 11 Codes; and Numerical Code answer (JUN 86) to CHP locations.

SEP: NO COLUMN.

OCT: Info on W6FXN repeater for earthquake monitoring; Saratoga Fire District freqs; Articles on use of cordless "radio-telephone" system, A law enforcement computer navigation system, Use of 80 channel Midland radio by the Wyoming DCI, West Covina PD to explore use of ultra-light aircraft, and Brief history of California State Police; Inquiries for ID of 154.935 & 507.7125 Mhz; Answer to APR 86 question on Goodhew Ambulance; Miscellaneous listings from Groveland & surrounding areas; Request to ID WGI324 (and freqs) and Yuba County info; LAFD glossary of ICS (Incident Command System); and ICS Operational Proceedure.

NOV: Callsign KMF786 assigned to Saratoga Fire District (OCT 86); Articles on FCC consideration to require electronic tags on all radio & TV transmitters, The large Southern California helicopter fleet, The end of San Bernardino FD's helicopter program, Volunteers in USFS lookout towers, and New USFS computer system; Info on ORCO Fire & a request to ID use of 507.1125 Mhz; CDF Santa Clara info; UCLA PD &

Ambulance info and freqs; Update on Mammoth Lakes PD & Mono County freq 153.920 Mhz monitored following earthquake; Request for Stockton PD, San Joaquin SO info, and LifeFlight freq; Riverside CDF Haz-Mat info; Preliminary freq info on Cerritos air disaster; and ID systems for Brea PD, Anaheim PD (and beat map), Fullerton PD, Kern SO, Sacramento PD, and Disneyland.

DEC: Answers to Yuba County questions, 154.935 Mhz, 507.7125 Mhz & ID WGI324 (& freqs) of OCT 86; LAFD 800 Mhz freqs for haz mat incidents; Info on use of CHP 72 Mhz links; Inquires for freqs of "California Land Management", Superior Ambulance (Orange County) & 800 Mhz freq of Major Ambulance, and inquiry for CDF Region 3; ID systems for Monterey SO, Monterey County Fire Districts, & Irvine PD; Articles on CADS in San Bernardino County, The development of MDT's to be used by LASO, & A map & info on the Paramedic Division of SF Dept of Public Health.

Switching to the Data Channel and clearing some miscellaneous input: The Orange County Sheriff has announced that they are on line with the CAL-ID fingerprinting identification system. ORCO Sheriff Gates released that the $645,000 computerized system is now available to all ORCO law enforcement agencies, and can search computerized print files in Sacramento (and other agencies that are on line) in a fraction of the time that searches by hand would take. Sheriff Gates also related that in the system's first test, a suspected drunk driver's partial print was located at the scene of an unrelated burglary, where ORCO investigators had very little clues.

As of 09-22-87, 2300 HRS, LASO Walnut Station #29 is now open (see SEP 87 for unit assignments). All Walnut units (290-299) are now using the station, and those units previously assigned to the Industry Station have been removed from Frequency 11 dispatch (and CADS) and are now dispatched on Frequency 31 (old San Dimas dispatch).

Finally, to show how some radio codes have changed, we have a list of San Diego PD 11 Codes from January, 1951. The 10 Codes have remained the same over the past 36 years (10-92 is still "Check transmitter"). This list is from WINTON [CASD-069]:

11- 6	Shooting In City	11-59	Rescue
11- 7	Prowler	11-60	Water Leak (Urgent)
11- 8	Person Down	11-61	Water Leak (Ordinary)
11- 9	Emergency Box Pulled*	11-62	Water Shut Off
11-10	Take A Report	11-63	Water Turn On
11-11	Pick Up Or Check	11-64	Light Lanterns
11-12	Loose Livestock	11-65	Signal Light Out
11-13	Injured Animals	11-66	Signals Out Of Order
11-14	Dog Bite	11-67	Ornamental Light Damage
11-15	Ball Game In Street	11-68	Ornamental Light Out
11-16	Trespass Dump/Theft	11-69	Fire Hydrant Knocked Off
11-17	Report Of Wires Down	11-70	Fire (Box Pulled)
11-30	Incomplete Phone Call	11-71	Fire (No Box Pulled)
11-31	Calling For Help	11-72	Still Alarm
11-40	Notify If Ambulance Needed	11-73	Tap Out
11-41	Ambulance Needed	11-80	Serious Injury Accident
11-42	No Ambulance Needed	11-81	Slight Injury Accident
11-43	Doctor Required	11-82	Non-Injury Accident
11-44	Coroners Case	11-83	No Detail Accident
11-45	Attempted Suicide	11-84	Direct Traffic
11-47	Injured Person	11-85	Tow Car Wanted
11-48	Furnish Transportation	11-99	Officer Needs Help

*"Emergency Box refers to the old "Gamewell" Police phone boxes placed on poles for the walking policeman to call in to Central Station. If he pulled the box, it meant he was in need of immediate help."

That's it for 1987. The PS-CA staff wishes all the best of the New Year to come. As we clear the frequency for routine traffic, we would like to dedicate this Index Column to BILL [CALA-145]: We're going to miss him...

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RAILROADS

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

Gary has moved to Michigan, so before we get to our annual index, we'll print his new address for those of you who would like to write to him directly:

Gary L. Sturm
22948 Springwell Court #205
Novi, MI 48050

Now it's time for our annual index to the Railroads Column. As usual we will divide the subject listings into two parts; the first part lists the names of specific railroads covered, and the second part lists general articles which do not relate to any specific railroad.

INDEX TO THE RCMA RAILROADS COLUMN—1987

Before we get to the railroad and subject listings, here is a summary of the articles which appeared each month:

JANUARY:
- Union Pacific Maintenance Channel
- Union Pacific-Stockton, Calif.
- Washington (DC) Metro
- Twin Cities Guide
- More FCC Shortline Data

FEBRUARY:
Railfone
Orange Empire Railway Museum (Perris, Calif.)
Frequency News
Russian Railroad Radio
Ferrocarril de Chihuahua al Pacifico (Mexico)

MARCH:
Atchison, Topeka & Santa Fe Master Frequency List

APRIL:
British Columbia Railway
Boston Commuters
Dallas-Ft. Worth
Springfield, Missouri
Demopolis and Marengo Counties, Alabama
New York Area
Tulsa, Oklahoma
Shortline Data

MAY:
Southeastern Pennsylvania Transportation Authority (SEPTA)
New Southern Pacific Dispatcher Channel
Southern Railway PBX
Boston Commuters
Burlington Northern
Chicago & North Western
British Columbia Railway
Conrail Derailment
Shortline Data
Ohio
Bay Area Rapid Transit (BART)

JUNE:
Miami Metrorail
Frequency News
Canada
Minnesota
Chicago & North Western

JULY:
Amtrak—Boston
New York City
Shortline Data
Philadelphia
Tourist Railroads

AUGUST:
Chicago & North Western—Eastern Division
Minnesota
Jefferson & Tuscaloosa Counties, Alabama

SEPTEMBER:
Vancouver, British Columbia
Canadian National Railways
New York City Transit Authority

OCTOBER:
Detroit, Michigan
Alaska Railroad
State Rail Authority of New South Wales (Australia)

NOVEMBER:
Grand Trunk Western Police—Chicago
Washington (DC) Metro
Polk County, Wisconsin
Association of American Railroads Radio Frequency Assignment Plan

DECEMBER:
Index to RCMA Railroads Column-1987

RAILROADS

Alabama & Florida	Jul
Alabama Great Southern	Apr Aug
Alaska	Oct
Alexander	Nov

Amherst	Nov				
Amtrak	Feb	Apr	Jun	Jul	Nov
Boston Commuters	Apr	May	Jul		
Anthracite	Jan				
Arkansas & Missouri	Jul				
Ashland	May				
Atchison, Topeka & Santa Fe	Mar	Apr	Nov		
Master frequency list	Mar				
Austin & Northwestern	Jul	Nov			
Bay Area Rapid Transit (BART)	May				
Birmingham Southern	Aug				
Boston & Maine	Apr				
British Columbia Railway	Apr	Sep			
British Columbia Hydro	Sep				
British Railways	May				
Burlington Junction	Jun				
Burlington Northern	Apr	May	Jun	Aug	Sep
	Nov				
Butte, Anaconda & Pacific	Nov				
Calera & Shelby	Feb				
Canadian National	Jun	Sep	Oct		
Canadian Pacific (see CP Rail)					
Chessie System	Jul	Oct	Nov		
Chicago & Illinois Midland	Nov				
Chicago & North Western	Jan	Mar	Apr	May	Jun
	Aug	Nov			
Chihuahua al Pacifico (Mexico)	Feb				
Colorado & Eastern	Jan				
Connecticut Central	Nov				
Conrail	Mar	Apr	May	Jul	Oct
Copper Basin	Feb				
CP Rail	Jun	Sep	Oct		
CSX Transportation	May	Aug			
Dakota, Minnesota & Eastern	May				
Dakota Rail	Aug				
Dakota Southern	Jan	May			
Duluth, Missabe & Iron Range	Nov				
East Broad Top	May	Jul			
East Erie Commercial	Apr				
Edmonton Transit (Canada)	Feb				
Escanaba & Lake Superior	Nov				
Escanaba & Northern	Aug				
Esquimalt & Nanaimo	Sep				
Essex Terminal	Oct				
Everett	Apr				
Ferdinand	Apr				
Florida Central	Jul				
Florida East Coast	Nov				
French Lick, West Baden & Southern	May				
Gloster Southern	Jul				
Gold Coast Railroad Museum	Jun	Jul			
Grand Trunk Western	Oct	Nov			
Great Lakes Steel	Oct				
Indiana	Apr	Nov			
Indiana Railway Museum	Jan				
Little Rock & Western	Nov				
Long Island	Apr	Jul			
Louisville, New Albany & Corydon	Apr				
Metro-North Commuter	Apr	Jul	Aug		
Metropolitan Stevedore Co. (Calif.)	Oct				
Miami Metrorail	Jun				
Minnesota Commercial	May				
Minnesota Transportation Museum	Jun				
Missouri-Kansas-Texas	Apr				
Missouri Pacific	Feb	Apr			
Montana Western	Jul				
Morristown & Erie	Jul				
Nashville & Eastern	Jul				
National Railway Historical Society	Jul				
New England Southern	Jan				
New Hope & Ivyland	Jul				
New Jersey Transit	Apr	Jul			

New York City Transit Authority	Apr	Jul	Sep		
New York Cross Harbor	Jul				
New York, Susquehanna & Western	Jul				
Norfolk & Western	Oct				
PBX	May				
North Stratford	Nov				
Oakland Terminal	Apr				
Orange Empire Railway Museum	Feb				
Otter Tail Valley	Jul				
Pacific Southwest Railway Museum	Mar				
Paducah & Louisville	Apr				
Patapsco & Back Rivers	Nov				
Phelps Dodge	Oct				
Pioneer Valley	Jan	May			
Pocono Northeast	Jan				
Port Authority Trans-Hudson (PATH)	Apr	Jul			
Rahway Valley	Jul				
Raritan River	Jul				
Sacramento (Calif.) Transit	Oct				
San Diego & Arizona	Mar				
Sand Springs	Apr				
Seaboard System	Apr	Aug			
SEPTA (Philadelphia)	May	Jul			
Soo Line	Jan	Apr	Jun	Jul	Aug
	Nov				
Southern	Apr	Aug			
PBX	May				
Southern Pacific	Apr	May			
PBX	Oct				
State Rail Auth. of New South Wales (Aust.)	Oct				
Staten Island Rapid Transit	Apr	Jul			
Strasburg	Jul				
Texas City Terminal	Nov				
Toronto, Hamilton & Buffalo	Jun				
Tulsa-Sapulpa Union	Apr				
Union Pacific	Jan				
PBX	Jan				
Upper Merion & Plymouth	Jul				
Valley	Nov				
Vancouver Wharves	Sep				
Washington Central	Jul				
Washington (DC) Metro	Jan	Nov			
West Tennessee	Nov				
Western of Alabama	Apr				
Wilmington & Western	Jul	Nov			
Winchester & Western (New Jersey Division)	Apr				
Wisconsin Central	Jul	Aug			

SUBJECTS COVERED IN GENERAL ARTICLES

Advanced Railroad Electronic System	Jan	
Association of American Railroads Radio Frequency Assignment Plan	Nov	
Australia	Oct	
End-of-train telemetry	Oct	
Maps	Aug	
Railfone	Feb	Aug
Russia	Feb	

Happy Holidays... —Gary & Bill

SPECIAL FEATURE

Radio Communications for the 1988 Calgary Winter Olympics

by Robert Berezowski
RCMA Canada Editor

Athletes, officials, and spectators from around the world will converge on Calgary February 13 - 28, 1988 for the XV Olympic Winter Games. About 1500 athletes, 1100 coaches, trainers, and other team officials, and 4500 media representatives from 59 countries are expected to attend. In all 14 winter sports are represented. The events will be held at 8 different venues, with the opening and closing ceremonies being held in McMahon Stadium, a recently expanded football stadium.

All of the alpine skiing (downhill, slalom) events will take place at Nakiska on Mount Allan, 83 km west of Calgary in the Kananaskis area. The cross country skiing and biathlon events will be held at the Canmore Nordic Centre, 90 km west of Calgary. All of the other events will be held at venues located in Calgary, including the Olympic Saddledome, Canada Olympic Park, Father David Bauer Arena, the Olympic Oval, Stampede Corral, and Max Bell Arena. In addition, the Stampede Round-Up Centre and the Big Four Building on the Stampede Exhibition grounds will play key roles for media coverage of the games. The Round-Up Centre will house the press centre, with workspace for all of the reporters and photographers expected to attend. The Big Four Building will house the International Broadcast Centre, from where the pictures and sounds of the games will be transmitted via satellite.

Radio will play an essential role in coordinating Olympic venue operations and logistics, transportation, security, medical aid, and news media coverage of the games. A large amount of radio spectrum will be required for the Olympics, mostly in the microwave spectrum. The numerous microwave and satellite links will make live television coverage possible. Radio spectrum to be used will range from VHF and UHF all the way up to 21 GHz.

The number of radios that will be required is enormous. About 600 mobile and 1500 portable radios, and up to 1200 pagers will be required for the needs of the Olympic Organizing Committee (OCO) and for CTV, the host broadcaster. 120 remote base/repeater stations are to be installed, including 30 stand-alone bases, 50 remote consoles, and 7 major consoles. Over 500 Olympic team radios will also be used. There are so many microwave and satellite links being used that the entire available microwave spectrum up to 15 GHz will be used for the games. All of the mobile, portable, and paging radio equipment was purchased from Motorola, who are an official sponsor of the games, and gave OCO a good deal on the equipment. Total value of the VHF/UHF equipment is $9.4 million.

It is the responsibility of OCO to plan and coordinate the necessary radio installations for all of the mobile, portable, paging, microwave and satellite communications required for the Olympics. A major task is frequency coordination to ensure there is no interference to or from existing radio users in the Calgary region, and from other Olympic radio users. Fortunately OCO has a very good working relationship with the Department of Communications (DOC). Because the Olympics are a short (16 days), one time event, the DOC has given OCO a large amount of freedom, especially in the microwave region, in planning and selecting frequencies and equipment. Of course with this freedom comes the requirement that everything is shut down and dismantled after the games.

The various radio systems include a UHF Mobile radio network, a UHF Portable radio network for each venue, a VHF paging network, the Olympic Team radios, the Security radio system, and the Microwave and Satellite links.

1. UHF MOBILE RADIO NETWORK

As mentioned above, Nakiska and the Canmore Nordic Centre are located in the mountains about 90 km west of Calgary. The mobile radio system would be required to provide good coverage throughout the city

of Calgary, around Canmore and Nakiska, and the highways between the venues.

Many options were considered in the design for this system. One option was to use the cellular telephone networks. In this case, Alberta Government Telephones (AGT) and Cantel both have 800 MHz cellular systems in Calgary, and AGT also has the 400 MHz Aurora system. This option was ruled out because of the low number of cellular channels existing or planned for the Canmore and Nakiska area, with only 4 or 5 Aurora channels and 14 800 MHz channels. Other options considered and ruled out because of the cost included 800 MHz cellular systems and trunked systems.

The selected design is a 400 MHz repeatered system, with remote base/repeater sites to provide complete coverage between the venues. Because of the terrain and the distances involved, the region has been divided into 3 cells, centered on Canmore, Nakiska, and Calgary. By the use of various remote repeater sites, the entire area is covered with some overlap. Normal RF design is to have different frequencies used in adjacent cells in order to avoid coverage problems caused by interference from adjacent cell transmitters in the overlap area. But in order to simplify operation for the radio users, the same frequencies are used in each cell. Although there may be some problems in the overlap areas, this is considered a small price to pay for the increased convenience to the radio user in not having to change frequencies when moving from cell to cell. This avoids the potential problem of losing contact with a mobile if the operator forgets to change channels when moving into an adjacent cell.

The Canmore and Nakiska cells will each have 7 UHF (400 MHz) duplex/repeater channels, while the Calgary cell will have the same 7 channels, with 2 additional channels for a total of 9. The channel usage will be as follows:

- One General Operations channel
- One Telephone Dial Access channel
- Two channels for CTV, the host broadcaster for engineering and operations.
- Two channels are assigned to Transportation in the Canmore and Nakiska cells, while an additional two channels (a total of four) are used for Transportation in Calgary.
- One spare channel used for overflow from the other channels.

Each radio will only have access to the channels assigned for the user. A few of the radios, assigned to communications personnel for testing and troubleshooting, will have access to all channels. Only a select few individuals will have radios capable of utilizing the Telephone Dial Access system. This system accesses the public telephone network through an autodialer.

Many Olympic officials and other personnel requested through OCO to be supplied with either the Telephone Dial Access on the OCO radio system, or to be supplied with a cellular telephone. OCO had to turn down most of these requests because of the expected demand on the cellular systems during the Olympics. However a few OCO vehicles do have cellular telephones.

All of the remote base/repeater transmitters are linked by microwave and wireline to 7 major consoles. These consoles are all Motorola CentraCom Series II. The primary console is the Calgary Operations Console, which is located in the OCO office. During the games this console will be manned 24 hours per day. The Calgary console has transmit and receive access to and control of all of the repeaters in all three cells. Depending on which channels and sites the operator wishes to monitor, he or she can select the audio from any number of channels to appear at the "Select Audio" speaker. All other channels will be heard on the "Unselect Audio" speaker. The console is also capable of patching together any number of repeaters from any cell on one of three patches.

The Calgary Operations Console has links to each of the other major consoles. These consoles are located at Canada Olympic Park, the Canmore Nordic Centre, Nakiska, and CTV. Each of these consoles will only be manned during the day, and have access to the UHF Portable

simplex radio channels in use at each of the venues (see below for further details on the Portable radio system). Using the CentraCom II cross-patching and the inter-console links, it is possible to patch the UHF Portable radio channels into the Calgary Console, and from there onto any of the UHF Mobile radio channels if desired. For example, this feature would be used after hours when the venue consoles are unmanned. Any personnel using portables at the venues can call the Calgary Operations Console for assistance if required.

These consoles also have a phone patch capability, initiated by the console operator, allowing the telephone conversation to be patched onto the desired radio repeater. The Calgary Operations Console also has links to the Calgary Police Service and the RCMP. The CentraCom II console is easy to operate, and allows great flexibility for the operators.

About 600 mobile units will be used. A mixture of Motorola MCX100 and Maxar80 units have been supplied. At this time, the radio systems are being installed and tested. The system is scheduled to be fully operational by the end of November, 1987.

2. UHF PORTABLE RADIO NETWORK

For operations at each of the venues, UHF portable radios will be used. These radios will be using frequency assignments in UHF TV channel 19 (500 - 506 MHz). Note that this is not a standard radio assignment. In Canada the land mobile service is permitted in the UHF frequency bands from 406 to 430 MHz, and from 450 to 470 MHz. The 470 to 512 MHz band is used in the U.S. Because the Olympics are a short term event, the DOC has allowed OCO to use this band on the understanding that the equipment will be dismantled after the games.

About 1500 UHF portables will be needed. Depending on the size of each venue, there may be as many as 200 or 300 portables at a venue. Motorola HT90 portables, and some MX-300 units have been purchased. These portables will be used for venue operations, including security, event coordination and judging, safety and medical aid, crowd control, and other logistics.

The CentraComm II major consoles at Nakiska, Canmore, and Canada Olympic Park all have access to the UHF Portable radio channels. Using the console patch capabilities and the links to the other consoles, these consoles will be able to link the UHF Portable radios to the UHF Mobile radio network if necessary.

3. VHF PAGING NETWORK

OCO is also purchasing up to 1200 pagers to remain in contact with OCO staff, volunteers, critical contractors, and other key people. The paging transmitters and other equipment are "borrowed" from National Pagette. OCO is using National Pagette's frequency and facilities, and after the games all of the pagers and equipment will be sold to National Pagette. In addition to the 1200 OCO pagers, it is expected that there will be between 600 and 1000 other pagers on the National Pagette system. At peak capacity, OCO is expecting 1000 pages per hour.

Motorola PMR 2000 digital alphanumeric pagers are being used. These units feature an LCD display capable of storing 680 characters. Multiple messages can be stored and displayed. A GOLAY digital code is used for the pagers. No voice paging will be used at all.

A page is made to the desired pager by typing in the message on a computer terminal connected to the paging network. Alternatively, a page can be accomplished anywhere there is a touch tone telephone. The paging network to be used by OCO consists of 8 base transmitters, with 4 in Calgary. All 8 transmitter sites are linked by radio, and they have all been delay equalized to account for propagation delays. These sites have been located to provide coverage to all of the venue sites. In fact, there is a certain overlap in some areas. During testing, it was found that good reliable coverage could be obtained even when some of the transmitters were deliberately disabled. With the delay equalization and strategic transmitter locations, the system should achieve a greater than 99% reliability of a successful page throughout the coverage area.

4. OLYMPIC TEAM RADIOS

In addition to the OCO radio systems, each of the Olympic teams from the 59 countries will be using their own radios for the coaches, trainers, and other team officials. In total, over 500 team radios will be used. OCO is doing the frequency coordination for the team radios, which is a massive task itself because of the need to protect the proposed team radios from interference to and from other team radios, and more importantly to protect the existing mobile radio services in the Calgary area from interference.

5. SECURITY RADIO SYSTEM

Security for the Olympics will be provided by an RCMP/Calgary City Police joint force operation. They will be assisted by a force of about 900 volunteers. The security requirements for the games are immense. Security for the athletes, security for the venues, crowd control, traffic control, VIP protection, and counter-terrorism are just a few of the duties. With so many different countries involved, there is a chance of some sort of terrorist incident. Another problem is the distance between Nakiska, Canmore, and Calgary. All the venues have to be covered, as do the highways between them. Radio facilities will be required at each venue, with links to the central dispatchers in Calgary.

The Olympic Security joint forces are installing a radio and telephone system in support of security for the Olympics. The radio system is a temporary installation that will be dismantled after the Olympics. OCO is providing interface and coordination for the Security radio system, but the installation is being performed under the direction of Olympic Security personnel. That is about all the information that is available because of the obvious need for secrecy.

It can be assumed that the present Calgary Police and RCMP radio systems will be heavily used in addition to the Olympic Security radio system. Both radio systems have been recently upgraded for the Olympics.

The Calgary Police Service have recently completed installation of their Computer Aided Dispatch System (CADS). The entire CADS project cost about $4.9 million. All of the patrol cars now have mobile data terminals (MDTs) installed in them, and the system is fully operational. The CADS system is presently suffering a relatively high amount of downtime, especially during the busy daytime periods, according to a police officer. The CADS system reliability and availability should improve once all the bugs have been worked out of the system.

As with all other computer dispatch systems, the telephone complaint taker enters the address, nature of the complaint, and other pertinent details into the system from his terminal. The address and other information then appears on the CRT display for the appropriate district. The dispatcher also has a display of all of the cars in his district, and their status. The dispatcher then selects which car to assign for the call. All addresses for calls and complaints are sent by the CADS, and the officers are capable of sending messages to the dispatchers and other patrol units. This has greatly increased the privacy of the radio system. The officers are also able to make inquiries on the Canadian Police Information Centre (CPIC) computer, allowing them to check for outstanding warrants and criminal records. Interfacing with motor vehicle registration computers allows checks on vehicle and driver licence information.

The RCMP radio system is also being modified. The Province of Alberta Communications System (PACS) will replace the existing network. Motorola Canada Ltd was awarded a $15 million contract for 1000 portable and 1000 mobile radio terminals, as well as repeater and base station equipment for the new province-wide VHF/UHF vehicular communications system. The PACS system will be operational in the Calgary-Banff area in time for the Olympics, and the remainder of the provincial network will be operational in 1989.

RCMP radio coverage across the province will also be improved by filling in a lot of dead spots. Once in place, the PACS system will provide 24 hour centralized complaint and dispatch service. The PACS system headquarters will be in Edmonton, with dispatch stations in Calgary, Lethbridge, Red Deer, Peace River, Edson and St Paul.

6. MICROWAVE AND SATELLITE LINKS

In order to broadcast the sights and sounds of the Olympics live to an estimated global audience of 1.5 billion people, an enormous amount of microwave and satellite facilities will be required. Microwave spectrum from 900 MHz to 23 GHz is being used, including all of the available microwave spectrum below 15 GHz. OCO is responsible for frequency coordination, and coordination with the DOC. As mentioned earlier, OCO has a very good relationship with the DOC. The DOC has been very flexible because the Olympics are a one-time event.

CTV, the host broadcaster will be using the latest in television technology to telecast the games. For example, the world's longest television lens will be placed on a hillside meadow across the valley 2 km from Nakiska. This camera will give panoramic shots of Mt Allan, and be able to zoom in on a single skier with up to 60X magnification.

Another unique camera being used for the Olympics is the huge gyro-stabilized Westcam camera. It will be carried beneath a helicopter and flown around Mt Allan for tremor-free aerial shots of the skiing. This camera will also hang from speakers above centre field at McMahon Stadium, providing overhead views for the opening and closing ceremonies.

CTV and ABC will also be using roving mobile ENG cameras providing coverage of activities away from the venues.

ABC will install a track surrounding the Olympic speedskating oval and equip it with a robot camera capable of moving at 43 km/h to keep pace with the racers.

In total, CTV is using 150 cameras for the Olympics, with 35 devoted exclusively for the Nakiska alpine skiing events. Twelve television mobiles, studios on wheels, are being brought in from across the country. Feeds from these mobiles will then be relayed by microwave and satellite to CTV facilities for domestic broadcast, and to the International Broadcast Centre (IBC) at the Big Four Building where it is relayed by satellite to the world.

All of the specialized cameras mentioned above will use the 2.5 GHz band to relay video back to the studios or the production mobiles. Air-to-ground video and ENG systems are also using the 2.5 GHz band. Remote camera control will use 900 MHz, which will share the band with remote microphones to broadcast crowd noise and other sounds.

Microwave video links between the venue production mobiles and the IBC will use the 6 and 7 GHz studio-to-transmitter and TV pickup bands, as well as links in the 12, 15, and 23 GHz video bands. Alberta Government Telephones (AGT) is providing some of the microwave equipment, including portable microwave equipment for the 6 & 7 GHz band. This transportable equipment is normally rented out for occasional use video feeds. Both CTV and ABC will also be bringing in equipment. Some of the ABC equipment did not conform to the Canadian frequency allocations, but DOC is allowing its use on a temporary non-interference basis during the games.

Satellite links will be heavily used for broadcast coverage of the Olympics. Both C-band (6 GHz uplink, 4 GHz downlink) and Ku-band (14 GHz uplink, 12 GHz downlink) will be used. At last count, there were 4 satellite dishes at both Nakiska and Canmore. At the IBC on the Calgary Stampede grounds, current plans are for 3 separate satellite dish "farms." Each farm consists of several satellite dishes in a common area. One farm will be for CTV, the host broadcaster, one farm for ABC, and one farm for the press.

The largest satellite dish is a 14.2 metre diameter dish to be used by Teleglobe Canada. The antenna is part of a transportable earth station, the largest, most powerful ever used by Teleglobe for TV coverage of an international event. The earth station was built and assembled by Telesat Canada for Teleglobe at a cost of $2.3 million. The dish itself was built by TIW Systems, Inc. of Niagara Falls, Ontario at a cost of $1.2 million. The ground communications equipment is being installed in a trailer by Telesat, which will be moved to the IBC.

The 14.2 metre earth station will be used to transmit about 1400 hours of programming during the games, operating on 6/4 GHz. It will be used by journalists and foreign broadcasters to transmit TV, radio, telephone, and data communications to Europe. Teleglobe will beam 6 TV uplinks and associated audio links directly to the Intelsat V satellite over the Atlantic Ocean for European traffic.

Pacific Rim traffic will be transmitted first to the Teleglobe earth station at Lake Cowichan, B.C. via the Anik C satellite (14/12 GHz Ku band). From Lake Cowichan it will be uplinked to the Intelsat V satellite over the Pacific Ocean on 6/4 GHz C-band.

TELEPHONE AND DATA COMMUNICATIONS

In addition to the radio equipment in use, Alberta Government Telephones (AGT) is installing and maintaining telephone and data communications equipment for the games. AGT is the official supplier of carrier services. Northern Telecom Canada is the official telecommunications equipment supplier. Northern are providing 11 SL-1 PABX units (a PABX is a digital switchboard providing voice and data services to the required number of extensions at a given location), fibre optic cable and electronics, copper cables, cross-connect hardware, over 4000 business telephone sets, and over 100 pay telephones. The total value of the equipment is over $4 million.

Included in the telecommunications system are data links from computer terminals at the venues to the International Broadcast Centre and the Main Press Centre via the PABXs. Among other uses, these computer links will allow Olympic event results to be rapidly distributed to the news media and broadcasters.

AGT has installed Northern Telecom FD-565 fibre optic transmission systems from AGT's Len Werry Building in downtown Calgary to Canada Olympic Park and the Canmore Nordic Centre. During technical trials of the 565 Megabit/second system, AGT and Northern set a North American distance record for digital transmission over fibre optics without an intermediate repeater. The FD-565 operated for 400 error-free hours between Calgary and Canmore, 107 km, without a repeater. Repeaters are usually required about every 40 km.

POST-OLYMPIC EQUIPMENT DISPOSAL

Several options were considered when acquiring the mobile radio equipment, including the mobile and portable radios, base station transmitters and repeaters, consoles, and the paging network and pagers. Options included purchasing, borrowing, or renting. The total cost of each option was estimated based on quotes from Motorola, the official supplier of mobile radio equipment. It was found that purchasing the equipment, and then selling the equipment after the games was the most economical alternative.

The paging network and all of the pagers will be sold to National Pagette. The UHF mobiles and portables will be sold to whoever desires them. These radios are in a standard frequency band for Canada, and there will be no problem in disposing of them. The UHF TV Ch 19 portables (500 - 506 MHz) will have to be sold internationally because this frequency band cannot be used in Canada. OCO will try to sell all of the base station transmitters/repeaters for the mobile radio system as one package if possible. The consoles can be used for any radio system in any frequency band, so they will be sold to anyone who wants them.

The 14.2 metre satellite antenna and the associated equipment will be converted to Ku-band and relocated to Toronto after the games. The microwave equipment will be dismantled and used elsewhere. This is because the microwave links were only given temporary licences by the DOC. The non-standard US microwave equipment brought in by ABC will have to be returned to the U.S.

The FD-565 fibre optics equipment installed between Calgary and Banff and Canmore will be used by AGT for their future voice, telephone, and data requirements.

CREDITS

Several publications were referenced for this article:

The Calgary Herald - Aug 24/87.
Canadian Communications Network Letter - June 16/86, Oct 6/86, Feb 23/87, May 11/87.
Canadian Communications Reports - Feb 28/87, May 15/87.
The Electronics Communicator - May 7/87.

I also wish to acknowledge the immense amount of information provided to me by Mr. Brian Page, Supervisor, Radio Telecommunications, OCO. Mr. Page was generous enough to take time out of his busy schedule to answer my questions, for which I am very grateful. Without his assistance this article would not have been possible.

VHF MARINE

Send information, articles, frequencies and their use, and questions that relate to private, commerical, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your December 1987 VHF Marine column.

I am sorry that there was no column last month but I was in the hospital for 5 weeks. Due to my hospital schedule I was unable to write the column. I hope that it will never happen again.

This month we have to publish the yearly index.

JANUARY
Information about a book on Tugboats.
Coast Guard Station Alameda,Ca. information.
Coast Guard Station Grand Haven,Mi. information.
Loggings for the St.Joseph,Mi. & Chicago,Il. area.
Los Angeles area Weather & Marine Channels.
Loggings for the New Orleans,La..
Liberty Celebration,New York Harbor,N.Y.,information.

FEBRUARY
Norfolk-Hampton Roads,Va. area loggings.
New York City,N.Y. Harbor Police information.
3 Coast Guard Station Boats numbers & stations.
Boston,Ma. Pilot Frequencies.
Cape Cod,Ma. Coast Guard Station small boat numbers.

MARCH
Navy Norfolk,Va. Harbor Control Frequency.
New York/New Jersey area frequencies.
Pacific Offshore Vessel Movement Reporting System information.
Northeast Oklahoma Marine listings & loggings.
Coast Guard Information Request.

APRIL
Canadian Maritime Mobile Safety & Communications Frequency Plan.
Information on a book about Tugboats.
Names of the Coast Guard Ferries that work in New York Harbor going between Manhattan and CG Base at Governors Island,N.Y.
2 Coast Guard Station Boats numbers & stations.

MAY
Baltimore area Park Rangers frequency report.
Tennessee Valley Authority Marine frequencies & information.
Frequencies used by the Coast Guard on the Rivers.

JUNE
Vancouver,B.C.(Canada) area information.
Vancouver,B.C. area Canadian Coast Guard listings and bases.

JULY
No Column - Mail Delay and Printer received it to late to print.

August
Stockton,Ca. area Frequency Information.
Wyoming,Minnesota area frequency information.
San Francisco,Ca. area marine information.

SEPTEMBER
Marine channel bleedover on pocket weather radio.
Illinois State Police information.
Chicago,Il. area information.
British Columbia (Canada) Marine Weather Forecast Areas.

OCTOBER
British/English Coast Guard information and frequencies.
Short article on New Jersey Drawbridges.
List on manned New Jersey Drawbridges.
Information on Greenpeace operations in the Great Lakes area.
VHF Profile on the west side of Lake Michigan.

NOVEMBER
There was no column due to my being in the hospital for over a month.

DECEMBER
1987 yearly index
preview of January 1988 issue.

The next issue will contain information from Roland (NY-365),New York Harbor ship docking information and questions. Also from Roger (Mn.-???),requests information on several lakes in Mn.. Also Michael (CALA-???),requests information on the LA area. Also Sol (CALA-697),requests Santa Cruz,Ca. area + Navy info.Also Mark (NY-246),requests info on the New London,Ct. area.

See you next month with the reports above and more if space permits.

RCMA NEW MEMBERS LIST

AZ 084 - W M BAIRD;8670 N ACAMAR LANE;TUCSON;AZ;85741;
CALA709 - ROBERT A SPICZKA;4110 LONG BEACH BLVD #12;LONG BEACH;CA;90807;
CAOR332 - JOHN STIRRAT;P O BOX 3146;FULLERTON;CA;92634;
CAOR333 - JACK W GREEN;BOX 231;TRABUCO CYN;CA;92678;
CASC063 - NORMAN L MC CLURKIN;4407 OAK HOLLOW DR #188;SACRAMENTO;CA;95842
CASF047 - R G LEVIN;P O BOX 3537;SAN FRANCISCO;CA;94119-3537;
CASH005 - CORY --LAST NAME AND ADDRESS WITHELD BY REQUEST
CO 063 - RICHARD R MOORE;700 E DRAKE #8-H;FT COLLINS;CO;80525;
FL 245 - JIM --LAST NAME AND ADDRESS WITHELD BY REQUEST
FL 246 - JOHN L STRACHAN;926 BAREFOOT BLVD;BAREFOOT BAY;FL;32958;
GA 083 - MARK --LAST NAME AND ADDRESS WITHELD BY REQUEST
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NH 031 - LARRY WICKENS;2 BENNETT WAY APT #20;NEWMARKET;NH;03857;
NJ 242 - KEN SMALL;519 VILLAGE DRIVE;EDISON;NJ;08817;
NJ 243 - PAUL N GILBERT;605 LYNNE DR;MORRIS PLAINS;NJ;07950;
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RI 032 - JAY PIETTE;29 HICKORY LANE;GREENVILLE;RI;02828;
TX 211 - MARK L RAPIER;9709 MOORBERRY ST;AUSTIN;TX;78729;
VA 133 - WILLIAM NEILD;15008 MAINE COURT;WOODBRIDGE;VA;22191;
WI 095 - BOB WALDRON;25910 103RD ST;TREVOR;WI;53179;
WI 096 - KARL HEIL;RT 1;BLUE MOUNDS;WI;53517;

MEMBERSHIP CARDS AND BADGES

RCMA has no badges, decals, or membership cards for sale or distribution. The label on your newsletter is your membership card. While other clubs may have gimmicks or commercial good deals, our 'good deal' is your newsletter. You determine its content because you write it.

MAILING PROCEDURES

The newsletter mailed each month has a cover date for the following month. This practice is followed so that the US Post Office can deliver your issue no later than the first of the month designated on the cover.

New members whose applications are received before the end of the month will begin receiving the newsletter the following month. The first issue will be dated the month after that — as described above.

RENEWAL PROCEDURES

During the month your membership — and therefore your newsletter delivery — is due to expire, you will receive a renewal notice in the form of a postcard. It contains all the information you need to continue receiving the newsletter.

Renewal checks and new membership applications received by RCMA's General Manager, P.O. Box 542, Silverado, CA 92676, are processed for deposit on a weekly basis. Actual computer updating is done at the end of each month. If your check/MO is received after this cut-off date, you will miss the next issue of the newsletter and your new renewal date will be moved back accordingly.

PRORATED MEMBERSHIPS

Due to postage costs and other considerations, membership applications or renewals for any sum less than the current rate are prorated accordingly. This means that the renewal date will be due in less than a year. Please do not send more money to finish the year; just renew when your prorated date comes up.

Also because of postage costs, RCMA cannot comply with member requests to supply back issues free of additional charge (see the monthly Calendar section regarding ordering of back issues). If a late renewal results in a missed issue, the newsletter can be ordered from RCMA's secretary.

ADDRESS CHANGES

MEMBER notifications of address changes are also updated at the end of each month. If this type of address change notice arrives after the cut-off date, the mailing label will not reflect the new address until the following month.

The newsletter is mailed 3rd class under a bulk mail permit. When a member's address change is supplied by the POST OFFICE (instead of by the member), the charge to the club is 30¢.

SPECIAL FREQUENCY REQUESTS

Get in touch with your local RCMA group (see monthly Calendar section for chapter listings) or use the Contact/Information Wanted column for frequencies in your area. RCMA is not yet set up for national distribution of frequencies, although ultimately, the 'big picture' could include copies of the FCC and IRAC data bases, a fast computer, and software to select and sort in any order.

Contributions of frequencies and other material must be sent to the appropriate newsletter editor. (Editors use their own discretion in printing material sent them by non-members.) Data sent to P.O. Box 4563 is always subject to delay and sometimes cannot be forwarded because of postage costs.

DISCLAIMER

RCMA is a non-profit club for scanner enthusiasts. Neither RCMA or its newsletter are affiliated with, participate in the management of, or are responsible for, any other organization or publication. This disclaimer includes application to POLICE CALL, an annual publication put out by RCMA's good friend Gene Hughes. Queries about this publication cannot be answered by RCMA.

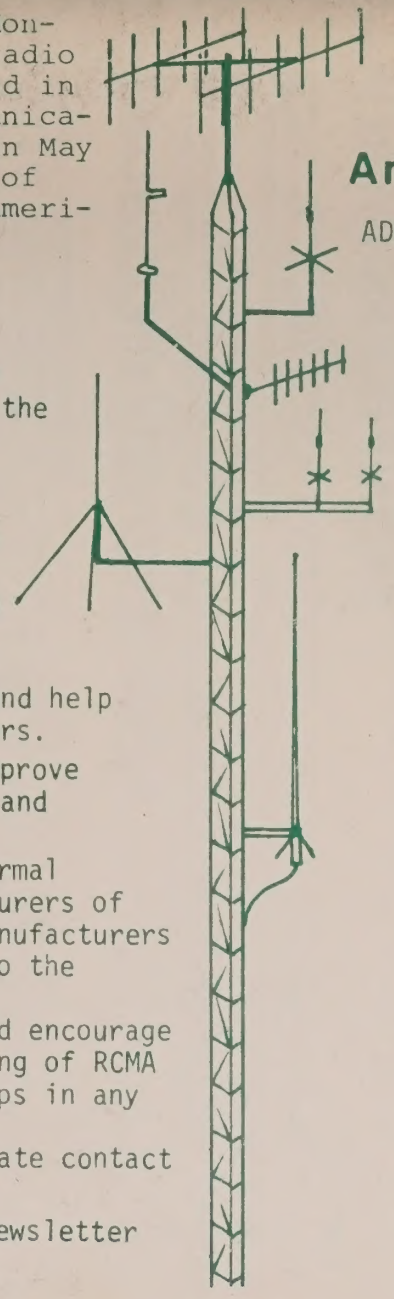
PLEASE REMEMBER — When writing to RCMA for any reason, include your membership number. Use it on your correspondence, checks, or money orders. RCMA tries hard to be responsive to your questions/problems. Using your membership number when you write helps us be of help to you.

The RCMA Board of Directors supports the policy of not printing certain federal law enforcement frequencies, e.g., Secret Service, FBI, Customs, DEA. Agreement with this policy has been reinforced by a membership survey.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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